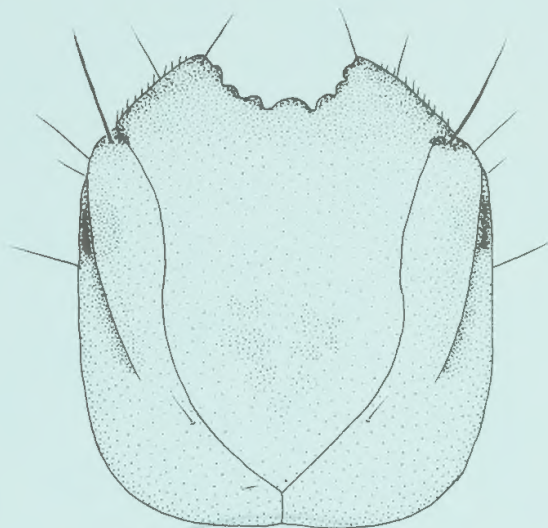


**OCCASIONAL PAPERS**  
**from the**  
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**Vol. 4 (1989)**



MELBOURNE AUSTRALIA



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*Front cover:* Larva and head of *Smicrophylax* sp. (Hydropsychidae) [line drawing by John Dean]



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Photographs must have clear definition and may be submitted as either glossy or flat prints at the actual size for reproduction. Line drawings for text figures should be in black ink on white card or drawing film. Maximum full page size is 177 mm wide by 220 mm, single column width is 86 mm. Clear lettering must be inserted. Original drawings up to twice final size are acceptable.



# Caddis-flies (Insecta: Trichoptera) of the World Heritage Area in Tasmania—species composition and distribution

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**Abstract.** Neboiss, A., Jackson, J. and Walker, K. 1989. Caddis-flies (Insecta: Trichoptera) of the World Heritage Area in Tasmania – species composition and distribution. *Occasional Papers from the Museum of Victoria* 4: 1–41.

Published data on Trichoptera (caddis-flies) from the Tasmanian World Heritage Area, supplemented by information obtained mainly from material collected during an expedition to the Lower Gordon river area in 1977 and Wildlife Research Expeditions to the South-west in 1988, are tabulated. Distributions are discussed and found that 131 species (79%) of the 166 Tasmanian species are within the World Heritage Area.

## Introduction

The Trichoptera are an ecologically important group, with greater diversity in various habitats than any other insect order with wholly aquatic larvae (Mackay and Wiggins, 1979). They inhabit almost every type of freshwater habitat. The larvae are involved in all the trophic processes of a freshwater ecosystem and are an important food item for various fish species (Jackson, 1978; Hurtle and White, 1980; Otto and Svensson, 1980) and other aquatic animals, including the platypus (Faragher et al., 1979).

One hundred and sixty six (166) species in 21 families have so far been recorded in Tasmania (Neboiss, 1986) and more than 70% are endemic (Neboiss, 1977). Some families (Kokiriidae, Tasimiidae, Helicophidae and Philorheithridae) have transantarctic distributions (Neboiss, 1986, Flint, 1979, Winterbourn 1980) so the Tasmanian fauna, particularly that of the South-west, is biogeographically important. Several families (Chathamidae, Oeconesidae, Calocidae and Conoesucidae) show close affinities with the New Zealand fauna, and one (Oeconesidae) is not found on the Australian mainland. Therefore, the distribution of Tasmanian Trichoptera deserves extensive investigation before a full understanding of their biogeography is reached.

The Tasmanian World Heritage Area (WHA) contains both extensive and diverse freshwater habitats which still remain largely unexplored. Any survey in this area will undoubtedly extend the range of known species, provide much needed information on their biology, and very likely will reveal undescribed species.

Extensive collecting was carried out in Tasmania between 1965 and 1975 (Neboiss, 1977). Many of these localities are now within the boundaries of WHA and provide valuable baseline data. Further investigations have been conducted by the Zoology Department of the University of Tasmania, the Inland Fisheries Commission, and the Australian and New Zealand Scientific Exploration Society (ANZSES). Results from expeditions to New River Lagoon, 1978–1979 have been described by McEvey (1980) and to the Franklin River area, Jan–Feb 1983, published by Malcolm (1987). The results from a 1977 expedition to the lower Gordon–Olga river area (A. Neboiss participating) are extensive and particularly interesting as they link the northern and southern sections of the WHA. Data extracted from all these sources have

been incorporated into this report with new material from WHA research expeditions in Jan–Mar 1988.

A taxonomic study of the family Conoesucidae undertaken by one of us (J. Jackson) is in progress and laboratory rearing of larvae to adults has already enabled specific identification of some larvae of Conoesucidae, Helicophidae and Calocidae. The Conoesucidae are the second most diverse of the case-making families in Australia and larvae are abundant in most lotic habitats in Tasmania which is the centre of radiation for the family. Of the 21 Australian species, 17 occur in Tasmania and 14 are endemic. In comparison, only 16 species are known from New Zealand (Neboiss, 1986). The family separation and relationships are incompletely understood and only detailed information on their immature stages will provide the solution (Ross, 1967; Neboiss, 1977; Hynes, 1984).

The immediate and future use of this report will be to provide a baseline study for any future environmental impact study on either terrestrial or aquatic disturbances. Both will reflect a change in the caddis-fly species composition and diversity of the streams surrounding the disturbed area.

## Area

The WHA has been divided into six investigation areas (Map 1). Information from a section of the Huon River and its tributaries between Blakes Opening and Arve River junction just outside the WHA, has been appended as Investigation Area 7 because it includes a large, deep water river system.

Results from 61 collecting sites are presented (Maps 2–8). Sites where only a few specimens were collected are not listed separately but combined with the nearest major site. These are indicated on maps with smaller numerals e.g., To 8.

*Investigation area 1:* Waldheim and Lake Dove area (Map 2). The vicinity of Waldheim at the extreme northern end of WHA has been visited by many entomologists over a long time, but little has been published on Trichoptera. Specimens collected by Tonnoir in 1922–1923 found their way to the Brussels Museum and formed the basis of two publications by Jacquemart (1965a, b). Publications by Mosely and Kimmins (1953) and Neboiss (1962, 1977) added many other species.



This investigation area includes 6 sites, all within 2 km of Waldheim, and have been amalgamated into one site (Site 1 A-F). Most of the Park, from Cradle Mt to Lake St Clair, remains unexplored for aquatic insects (Trichoptera).

**Investigation area 2:** Seven main collecting sites (2-8) located either at the southern end of Lake St Clair or along the Lyell Highway between the eastern and western boundaries of the WHA (Map 3). Almost all collecting sites in this area are associated with comparatively large, fast flowing rivers. Two were lacustrine (Sites 3, 5).

**Investigation area 3:** Six collecting sites (9-14) restricted to a small mountainous area in Frenchmans Cap National Park (Map 4). They are at an approximate altitude of 1000 m and situated in the vicinity of small mountain lakes with small in-or out-flowing streams. Ms J. Jackson was the first to collect (January 1988) Trichoptera in this area.

**Investigation area 4:** 13 collecting sites (15-27) on the Lower Gordon River below Gordon Dam, and its tributaries (Map 5). All information is based on material collected by Neboiss and a team from the University of Tasmania Department of Zoology in January, 1977. A variety of habitats was sampled with mercury vapour light traps. At this time, the main water flow of Gordon River was already stopped by the HEC dam at Strathgordon. The main source of water was the inflow from the tributaries.

**Investigation area 5:** 16 sites (Map 6), of which 12 are on the shores of the present Lake Pedder impoundment. One (Site 32) was on the original Lake Pedder before flooding in 1972, and two are on the banks of inflowing streams – Sandfly Creek (Site 30) and Condominium Creek (Site 31). Site 29 is on Wedge River which drains into Lake Gordon. Some of the sites were investigated during 1965-1966 by Neboiss before disturbance of the surrounding environment. The specimens from the sites on shores of Lake Pedder impoundment during 1988 were collected by Jackson, Chilcott and Fulton.

**Investigation area 6:** 11 scattered, southern sites (44-54) (Maps 7 and 8). Although mountain ranges occupy considerable sections of the area, very little collecting of Trichoptera has been possible at higher altitudes and in mountain lakes because of the difficulty in access with light trap equipment. These places, however, are the most promising for unusual and interesting species, which could hold information on some relic fauna, and taxa with Transantarctic relationships.

**Investigation area 7:** Seven sites (55-61) in part of the Huon River and its tributaries eastward from the WHA boundary to the Arve River junction (Map 8). Extensive collecting with light traps was carried out between 1967 and 1972 by Riek and Neboiss to which is added recent collection data by Chilcott. This provides good baseline data for the period before the destruction of forests by the woodchip industry.

### Methods

Adults were collected directly into 80% ethanol. Almost all the material was placed in small glass vials, preserved and permanently stored in ethanol. Only a small number of specimens have been dry mounted.

Larvae and pupae were collected by hand picking them from substrate rocks, submerged wood, aquatic plants or sieving of loose substrate. Samples of moss, plants and leaf litter were taken for later sorting in the laboratory. Specimens required for rearing to adults were transported alive, others were preserved in Kahle's fluid (Wiggins, 1977) which is superior to alcohol for fixing specimens extracted from water.

Larvae and pupae to be reared, were placed in small plastic containers with few centimetres of water, aerated with compressed air through a pipette and kept at 15°C. Some sand, leaves and/or algae were added to provide food and case material; transparent lids prevented escape of emerged adults.

For adult collecting during the day and in the early hours of evening the customary hand net was used. Riparian vegetation was swept in the vicinity and along the banks of streams as well as low scrub on buttongrass plains and hillsides with water seepage areas. During late evenings and nights, specimens were attracted by mercury vapour light and captured in traps or on a white sheet.

A portable 240V generator with 300W to 1000W output, pending on availability, was used as the power unit for MV 150-500 W blended or clear glass lamps. It was noted that at higher altitudes specimens were active and attracted to light at lower temperature than at lowlands.

### Results

The caddis-fly material accumulated and examined over a period of twenty years, from the area which is now within the boundaries of the WHA, numbers well over 80,000 specimens. Of these, nearly 5,000 were collected during the 1988 Wildlife Research Expeditions.

Of the 166 Trichoptera species recorded from Tasmania (Neboiss, 1986), 131 species or nearly 79% of the Tasmanian fauna, occur within the WHA. Another 20 undescribed species have now been recognized, and these will be described in a future publication. It is not possible to find a higher concentration of caddis-fly species in an area of comparable size elsewhere in Australia. Several families, widely distributed in the eastern part of the State, are almost or entirely absent from the WHA. These include Tasimiidae, Helicopsychidae, Helicophidae (genus *Helicopha*) and Calamoceratidae.

Highest species diversity is found in the Lower Gordon River area (Area 4) with 90 recorded species (Table 1). The second highest is the Lake Pedder impoundment area (Area 5) with 76 recorded species. Here, however, the diversity is not even throughout. It is much higher in the stream samples – Sandfly creek (Site 30), Condominium creek (Site 31) and Wedge river (Site 29), whereas the lake samples show considerably lower species diversity. The light trap sample from Frankland shore (Site 38) registered only 23 species compared with 40 species from Sandfly creek.

The third highest species diversity was recorded from Investigation Area 6 with 72 species. The sites are widely separated and in a variety of habitats thus providing a good cross-section of most families.

Six species – *Apsilochorema obliquum* (Mosely), *Ethochorema nesydrion* (Neboiss), *Plectrocnemia altera* Neboiss, *Alloecella longispina*, Jacquemart, *Atriplectides dubius* Mosely and *Triplectides bilobus* Neboiss have been recorded from all Areas. A further 17 species are known from six of the seven Investigation Areas. In contrast, species known from a single locality and by only a few specimens are, *Taskiria mccubbini* Neboiss, *Taskiropsyche lacustris* Neboiss, *Tascuna ignota* Neboiss, *Westriplectes pedderensis* Neboiss, or from a single specimen – *Nanoplectrus truchanasi* Neboiss, *Archaeophylax vernalis* Neboiss, *Hydrobiosella orba* Neboiss and *Costora krene* Neboiss. Several little known and zoogeographically interesting species – *Archaeophylax vernalis*, *Costora krene*, *Hydrobiosella orba*, *Tasmanoplegas spilota* Neboiss, *Tascuna ignota* and *Westriplectes pedderensis* were captured during the 1977-1988 research expeditions, so expanding knowledge of their distributions, habitat preferences and biology. Other species recorded for the first time from the WHA are *Costora delora* Mosely, *Conoesucus fromus* Mosely and *Aphilorheithrus luteolus* Neboiss. *Alloecella grisea* Banks and *Conoesucus digitiferus* Jacquemart were found to be widespread.

Highest numbers of species from a single nights collecting are from: Dove River near the outflow from Dove Lake (Site 1D) 33 species; Sir John Falls, Cataract Creek (Site 16) 30 species; Franklin River – Roaring Creek junction (Site 17) 44 species; Gordon River above First Split (Site 22) 40 species; Olga River 19 km above Gordon River junction (Site 26) 44 species; Sandfly Creek (Site 30) 40 species; Old River and Collins River junction (Site 46) 36 species and Huon – Picton River junction (Site 59) 37 species.

The sequence of species in the presented tables is not alphabetic but rather is in accordance with the currently accepted systematic arrangement. All species known from Tasmania are listed to highlight gaps in the fauna of the WHA.

### Discussion

The aquatic insect fauna in general, and caddis-flies in particular, of the Tasmanian World Heritage Area make an important contribution to the study of the Australian insect fauna



because of its unique geographic situation. The combination of streams, lakes and sedgelands, commonly referred to as button-grass plains, is not found elsewhere in Australia. The presence and survival of species in these habitats depend on seasonally fluctuating rainfall, water levels and temperatures. Most of Tasmania's highest rainfall areas, with falls exceeding 2500 mm p.a., occur within this area. Changes in surface vegetation in catchment areas is reflected in stream character by increasing silt deposition, water temperature, and disrupting water level fluctuations. Aquatic insect ecology, species diversity and composition are consequentially affected. (Blyth et al., 1984).

Caddis-fly distributions, and abundance are only now gradually being investigated and understood. Very little economic value has been attached to the caddis-fly fauna until recently when their potential as pollution level indicators (Resh and Unzicker, 1975) and their trophic value was realized (Hellawell, 1986). Caddisflies constitute a significant portion of the food chain in freshwater ecosystems. The species distribution throughout the environment is not uniform and their tolerance to environmental conditions determines their value as indicator species. Common and readily identifiable taxa are the most useful.

Tasmanian caddis-fly fauna provide strong evidence in support of transantarctic relationships. The families Tasimiidae, Kokiriidae, Helicophidae and Philorheithridae (Wiggins, 1984) and the Triplectidinae genus *Notalina* (Holzenthal, 1986) having counterparts in both continents. Tasmania, as the most southern extension of the Australian continent, and the unique climatic conditions, has retained many relic taxa. Two particularly interesting species belonging to the transantarctic family Kokiriidae were found at the original Lake Pedder. Both species *Taskiria mccubini* and *Taskiropsyche lacustris* have not been collected after the flooding of the lake in 1972, and as both were associated with the specific lacustrine habitat, may have become extinct when the water level rose. Their life histories remain unknown. Continued taxonomic and ecological studies will undoubtedly provide information on evolutionary processes.

#### Acknowledgements

We are grateful to Department of Lands, Parks and Wildlife, Tasmania for giving us the opportunity to take part in the 1988 Wildlife Research Expeditions. We are particularly grateful to Dr Steven Smith, coordinator of the expedition programmes; Drs Michael Pemberton and Peter McQuillan, Department of Agriculture, Tasmania and Drs Wayne Fulton and Stuart Chilcott, Inland Fisheries Commission, for their enthusiasm, help and cooperation. Identifications of Hydroptilidae were done by Dr Alice Wells, Zoology Department, University of Adelaide. Her assistance is greatly appreciated.

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#### Collecting site register

(Note: The Map Grid Reference refers to the 1:100,000 map series with the first number (eg. 8014) indicating the map number and the second number (119897) the grid reference.)

Site No. 1 Investigation Area 1 Various collectors 1965-1976 Waldheim, Cradle Mt, Dove River, Lake Lilla. Map Grid Reference 8014 119897 41°38'S 145°56'E Combined localities. Sites 1 A-F. Refer to Map 2.

Site No. 2 Investigation Area 2 Various collectors 1965-1976 Derwent River Bridge. Map Grid Reference 8113 346364 42°07'S 146°12'E River section 0.5 km below Lake St Clair dam.

Site No. 3 Investigation Area 2 Various collectors 1965-1976 Lake St Clair (south end). Map Grid Reference 8113 313372 42°07'S 146°09'E South end and Hugel River inflow. (8113 312376).

Site No. 4 Investigation Area 2 J. Jackson 22 Feb 1988 Navarre River. Map Grid Reference 8113 302293 42°11'S 146°09'E.

Site No. 5 Investigation Area 2 J. Jackson 22 Feb 1988 Lake Dixon. Map Grid Reference 8113 261321 42°10'S 146°07'E Upper Reaches of Franklin River.

Site No. 6 Investigation Area 2 A. Neboiss 1972 Arrowsmith Creek. Map Grid Reference 8113 251262 42°13'S 146°03'E.

Site No. 7 Investigation Area 2 Various collectors 1965-1988 Franklin River. Map Grid Reference 8113 190257 42°13'S 146°01'E.

Site No. 8 Investigation Area 2 A. Neboiss and J. Jackson. 1965-1988 Collingwood River. Map Grid Reference 8013 113314 42°10'S 145°55'E Includes specimens from Cardigan River (8013 034354) coll. J. Jackson.

Site No. 9 Investigation Area 3 J. Jackson 29 Jan 1988 Lake Tahune, Frenchmans Cap National Park. Map Grid Reference



8013 038198 42°17'S 145°51'E.

Site No. 10 Investigation Area 3 J. Jackson 29 Jan 1988 Artichoke Valley, Frenchmans Cap National Park. Map Grid Reference 8013 048196 42°17'S 145°51'E.

Site No. 11 Investigation Area 3 J. Jackson 29 Jan 1988 Lake Gwendolen, Frenchmans Cap National Park. Map Grid Reference 8013 028203 42°17'S 145°51'E.

Site No. 12 Investigation Area 3 J. Jackson 29 Jan 1988 Lake Whitham, Frenchmans Cap National Park. Map Grid Reference 8013 071163 42°17'S 145°51'E.

Site No. 13 Investigation Area 3 J. Jackson 29 Jan 1988 Lake Nancy, Frenchmans Cap National Park. Map Grid Reference 8013 033207 42°17'S 145°51'E.

Site No. 14 Investigation Area 3 J. Jackson 29 Jan 1988 Lake Vera, Frenchmans Cap National Park. Map Grid Reference 8013 079194 42°17'S 145°51'E.

Site No. 15 Investigation Area 4 A. Neboiss and D. Coleman 9 Jan 1977 Gordon River, 8 km below Butler Is. Map Grid Reference 8012 913928 42°30'S 145°40'E Unnamed lake on east bank.

Site No. 16 Investigation Area 4 A. Neboiss, D. Coleman and P. Allbrook. 9 Jan 1977 Sir John Falls, Cataract Creek, trib. of Gordon River. Map Grid Reference 8012 925858 42°34'S 145°41'E.

Site No. 17 Investigation Area 4 A. Neboiss, D. Coleman and P. Allbrook 8 Jan 1977 Franklin River, Roaring Creek junction, 1 km above Gordon River. Map Grid Reference 8012 965845 42°35'S 145°45'E. Includes ANZSES 1983 expedition material 8–22 Jan 1983.

Site No. 18 Investigation Area 4 A. Neboiss 13 Jan 1977 Gordon River, 0.5 km above Sprent River junction. Map Grid Reference 8012 975797 42°38'S 145°45'E.

Site No. 19 Investigation Area 4 A. Neboiss 7–15 Jan 1977 Gordon River, Smith River junction area. Map Grid Reference 8012 017735 42°41'S 145°48'E Includes specimens from Harrison Creek junction.

Site No. 20 Investigation Area 4 A. Neboiss, R. Swain, D. Coleman and P. Allbrook 10 Jan 1977 Maxwell-Denison River junction. Map Grid Reference 8012 073727 42°41'S 145°52'E.

Site No. 21 Investigation Area 4 D. Coleman and P. Allbrook 11 Jan 1977 Gordon River at Denison River junction. Map Grid Reference 8012 044697 42°44'S 145°50'E.

Site No. 22 Investigation Area 4 A. Neboiss, R. Swain, D. Coleman and P. Allbrook 11 Jan 1977 Gordon River, 0.5 km above first split. Map Grid Reference 8012 064669 42°44'S 145°51'E.

Site No. 23 Investigation Area 4 A. Neboiss, R. Swain, D. Coleman and P. Allbrook 12 Jan 1977 Gordon River, 0.5 km below second split. Map Grid Reference 8012 073667 42°44'S 145°52'E.

Site No. 24 Investigation Area 4 A. Neboiss 12 Jan 1977 2 km below Serpentine River junction. Map Grid Reference 8012 134667 42°44'S 145°56'E.

Site No. 25 Investigation Area 4 A. Neboiss 13 Jan 1977 Olga River, 4 km above Gordon River junction. Map Grid Reference 8012 001692 42°43'S 145°47'E Collected by hand on buttongrass and river areas.

Site No. 26 Investigation Area 4 A. Neboiss and R. Swain 13 Jan 1977 Olga River, 19 km above Gordon River junction. Map Grid Reference 8012 040547 42°51'S 145°50'E Collected on buttongrass swamp area with MV-light.

Site No. 27 Investigation Area 4 D. Coleman and P. Allbrook 13 Jan. 1977 Olga River, 19 km above Gordon River junction. Map Grid Reference 8012 040547 42°51'S 145°50'E Collected by MV-light at riverside.

Site No. 28 Investigation Area 5 J. Sedlacek Jan 1977 Strathgordon, Creek at Teds Beach Map Grid Reference 8112 232625 42°46'S 146°03'E.

Site No. 29 Investigation Area 5 Various collectors 1965–1988 Wedge River at Gordon River Road. Map Grid Reference 8112 372544 42°52'S 146°14'E.

Site No. 30 Investigation Area 5 A. Neboiss, K. Walker and J. Jackson 9 Feb 1988 Sandfly Creek on Scotts Peak Dam Road. Map Grid Reference 8112 485493 42°54'S 146°22'E Includes several localities a few kms N and S of Sandfly Creek.

Site No. 31 Investigation Area 5 A. Neboiss, K. Walker and J. Jackson. 9 Feb 1988 Condominium Creek on Scotts Peak Dam

Road Map Grid Reference 8112 479434 42°58'S 146°22'E Includes a few specimens from Twin Creek (8112 483413), J. Jackson.

Site No. 32 Investigation Area 5 A. Neboiss 1965–1972 Lake Pedder Map Grid Reference 8112 343440 42°57'S 146°12'E Collections before 1972 flooding of Lake Pedder.

Site No. 33 Investigation Area 5 S. Chilcott and J. Jackson 29 Feb. 1988 Lake Pedder impoundment, Edgar Dam beach west side. Map Grid Reference 8111 465357 43°02'S 146°21'E.

Site No. 34 Investigation Area 5 S. Chilcott and J. Jackson 29 Feb 1988 Lake Pedder impoundment, near Edgar Dam beach boat ramp. Map Grid Reference 8111 427352 43°02'S 146°20'E.

Site No. 35 Investigation Area 5 S. Chilcott and J. Jackson 29 Feb 1988 Huon River below Scotts Peak Dam. Map Grid Reference 8111 427352 43°02'S 146°18'E.

Site No. 36 Investigation Area 5 S. Chilcott and J. Jackson 2 Mar 1988 Lake Pedder impoundment, Giblin Bay. Map Grid Reference 8111 358364 43°01'S 146°13'E.

Site No. 37 Investigation Area 5 S. Chilcott and J. Jackson 2 Mar 1988 Lake Pedder impoundment, Pebbly Creek south branch. Map Grid Reference 8112 352395 43°00'S 146°12'E.

Site No. 38 Investigation Area 5 S. Chilcott and J. Jackson 2 Mar 1988 Lake Pedder impoundment, Frankland shore. Map Grid Reference 8112 284422 42°58'S 146°08'E Camp site and other nearby localities.

Site No. 39 Investigation Area 5 S. Chilcott and J. Jackson 1 Mar 1988 Lake Pedder impoundment, Crumbledown shore, Timber Creek. Map Grid Reference 8112 272452 42°56'S 146°06'E.

Site No. 40 Investigation Area 5 S. Chilcott and J. Jackson 3 Mar 1988 Lake Pedder impoundment, Forest Creek draining Lake Ampulla Map Grid Reference 8112 222493 42°54'S 146°03'E.

Site No. 41 Investigation Area 5 S. Chilcott and J. Jackson 3 March 1988 Lake Pedder impoundment, Helder Inlet Map Grid Reference 8112 298533 42°52'S 146°08'E.

Site No. 42 Investigation Area 5 S. Chilcott and J. Jackson 3 March 1988 Lake Pedder impoundment, Bonnet Bay Map Grid Reference 8112 301490 42°55'S 146°09'E.

Site No. 43 Investigation Area 5 S. Chilcott and J. Jackson 2 March 1988 Lake Pedder impoundment, Maria Creek. Map Grid Reference 8112 420503 42°54'S 146°17'E.

Site No. 44 Investigation Area 6 A. Neboiss 1965–1966 West Arthur Plains, Junction Creek. Map Grid Reference 8111 408271 43°06'S 146°16'E.

Site No. 45 Investigation Area 6 A. Neboiss 1966 Cracroft River Crossing. Map Grid Reference 8111 574221 43°09'S 146°29'E.

Site No. 46 Investigation Area 6 A. Neboiss, K. Walker and J. Jackson 10 Feb 1988 Old River and Collins River junction. Map Grid Reference 8111 460092 43°16'S 146°20'E.

Site No. 47 Investigation Area 6 J. Jackson 12–15 Jan 1988 Mulcahy Bay, Alex Rivulet. Map Grid Reference 8011 971253 43°07'S 145°44'E Includes several nearby sites.

Site No. 48 Investigation Area 6 A. Neboiss and K. Walker 12–13 Feb. 1988 Melaleuca Creek, Melaleuca Map Grid Reference 8111 311919 43°25'S 146°09'E.

Site No. 49 Investigation Area 6 S. Chilcott et al. 10 Feb 1988 Ray River. Map Grid Reference 8111 405895 43°27'S 146°16'E.

Site No. 50 Investigation Area 6 S. McEvey Dec 1978–Jan 1979 Louisa Creek. Map Grid Reference 8111 473854 43°29'S 146°21'E ANZSES New River Expedition.

Site No. 51 Investigation Area 6 S. McEvey and J. Jackson. Dec 1978/Feb 1988 New River Lagoon, Limestone and Urquart Creeks. Map Grid Reference 8211 658838 43°30'S 146°35'E ANZSES New River expedition–Cavers camp.

Site No. 52 Investigation Area 6 A. Neboiss and K. Walker 16 Feb 1988 Pigsty Ponds area, d'Entrecasteaux River source. Map Grid Reference 8211 782844 43°30'S 146°44'E.

Site No. 53 Investigation Area 6 A. Neboiss and K. Walker 16 Feb 1988 Maxwell Ridge, Reservoir Lakes, Picton River source. Map Grid Reference 8211 781853 43°29'S 146°44'E.

Site No. 54 Investigation Area 6 A. Neboiss and K. Walker 17 Feb 1988 d'Entrecasteaux River at South Cape Road bridge. Map Grid Reference 8210 898827 43°31'S 146°52'E.

Site No. 55 Investigation Area 7 A. Neboiss 1966 Huon River



at Blakes opening. Map Grid Reference 8211 690279 43°06'S 146°37'E.

Site No. 56 Investigation Area 7 S. Chilcott 9 Mar 1988 Tomalah Creek. Map Grid Reference 8211 729292 43°06'S 146°40'E.

Site No. 57 Investigation Area 7 S. Chilcott 9 Mar 1988 Kroanna Creek. Map Grid Reference 8211 734290 43°06'S 146°43'E.

Site No. 58 Investigation Area 7 S. Chilcott 9 Mar 1988 Trug-gara Creek. Map Grid Reference 8211 756287 43°06'S 146°43'E.

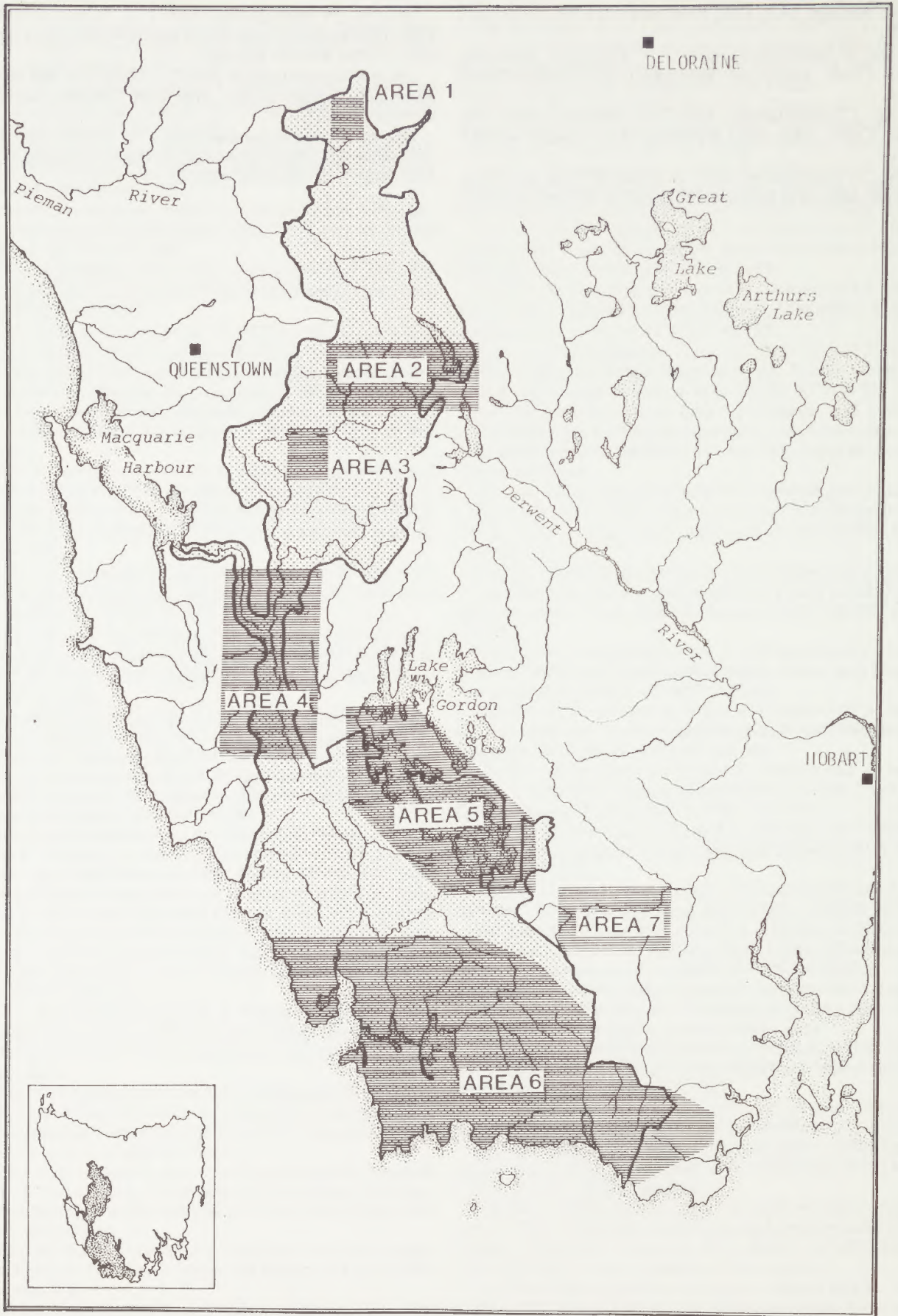
Site No. 59 Investigation Area 7 A. Neboiss and E. Riek 1965–1974 Huon—Picton Rivers junction. Map Grid Reference 8211 776284 43°06'S 146°44'E.

Site No. 60 Investigation Area 7 S. Chilcott 14 Jan 1988 Huon River near Tahune Bridge. Map Grid Reference 8211 778285 43°06'S 146°44'E.

Site No. 61 Investigation Area 7 A. Neboiss and E. Riek 1965–1974 Arve River on Arve River Road. Map Grid Reference 8211 842214 43°10'S 146°48'E.

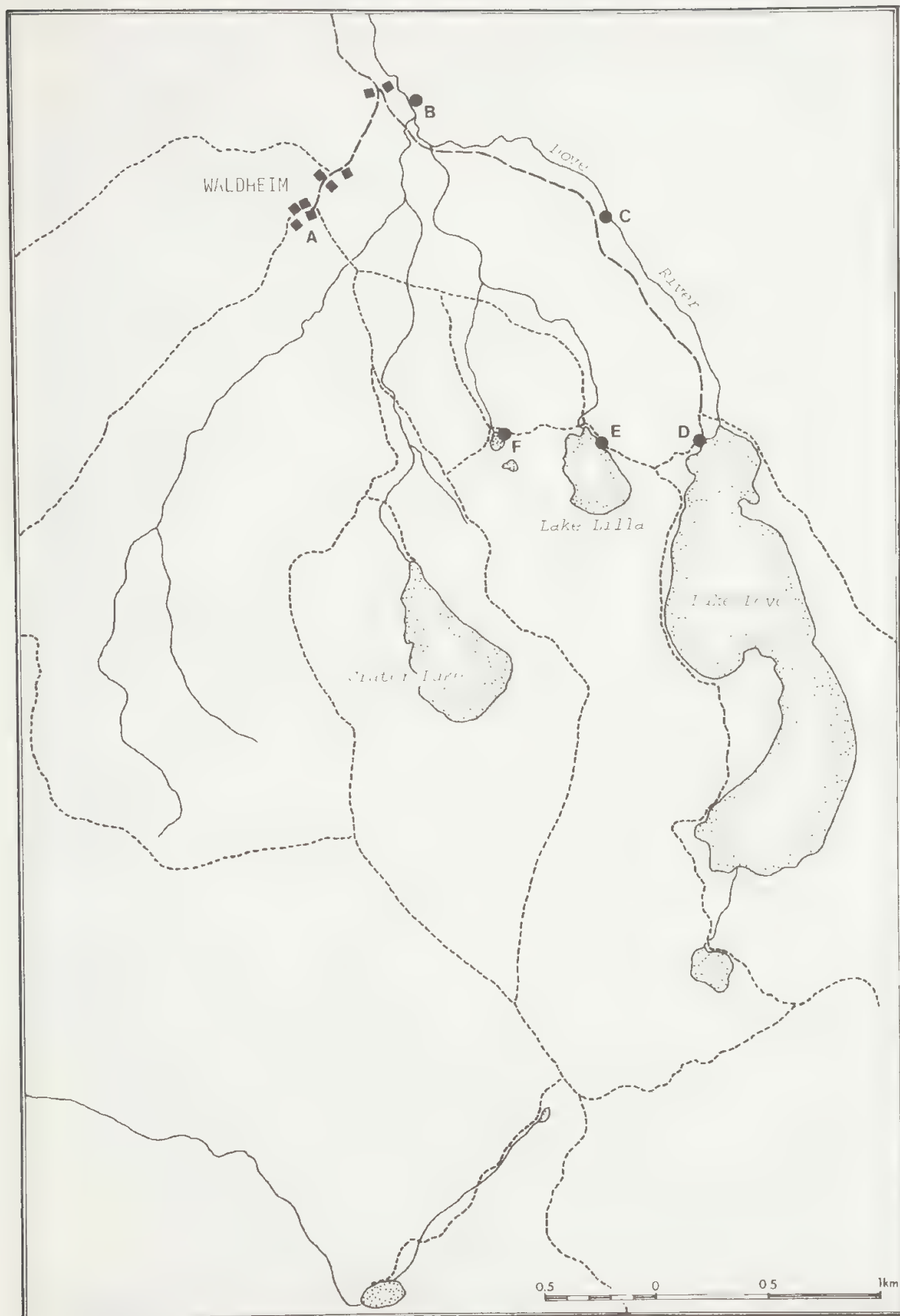






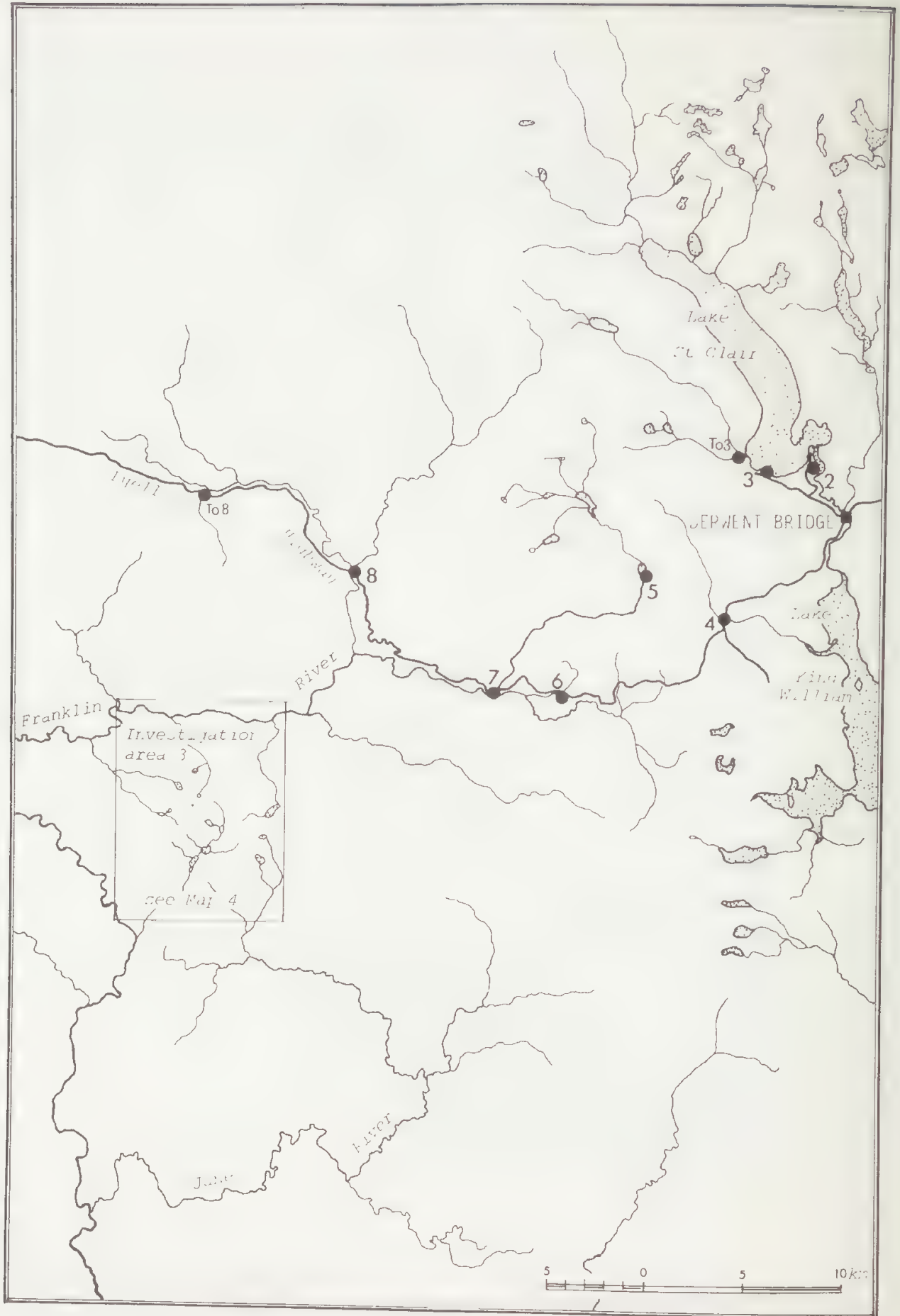
Map. 1. World Heritage Area, SW Tasmania. Trichoptera investigation areas 1 to 7





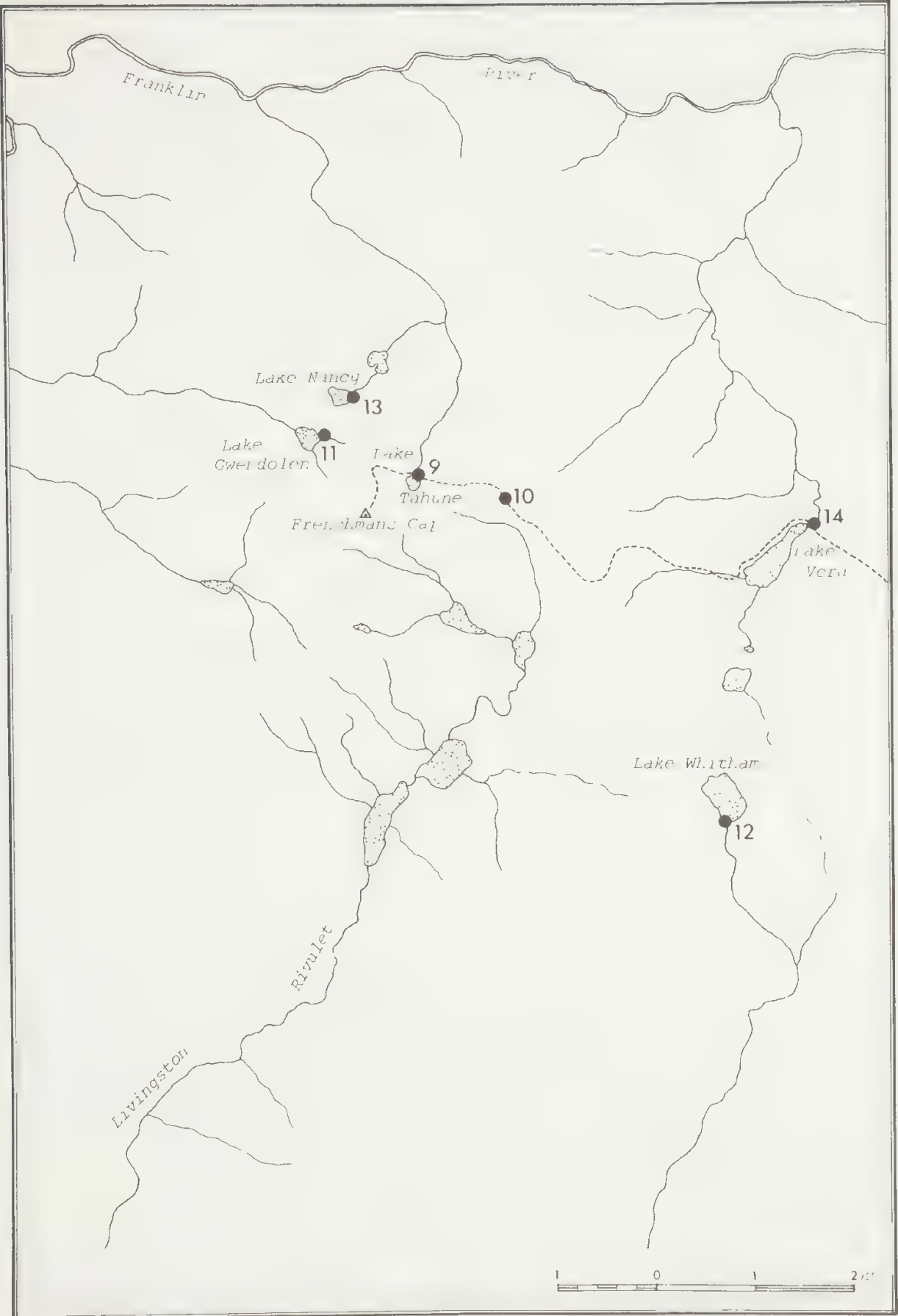
Map. 2. Investigation Area 1; Combined collecting site 1 (A-F)





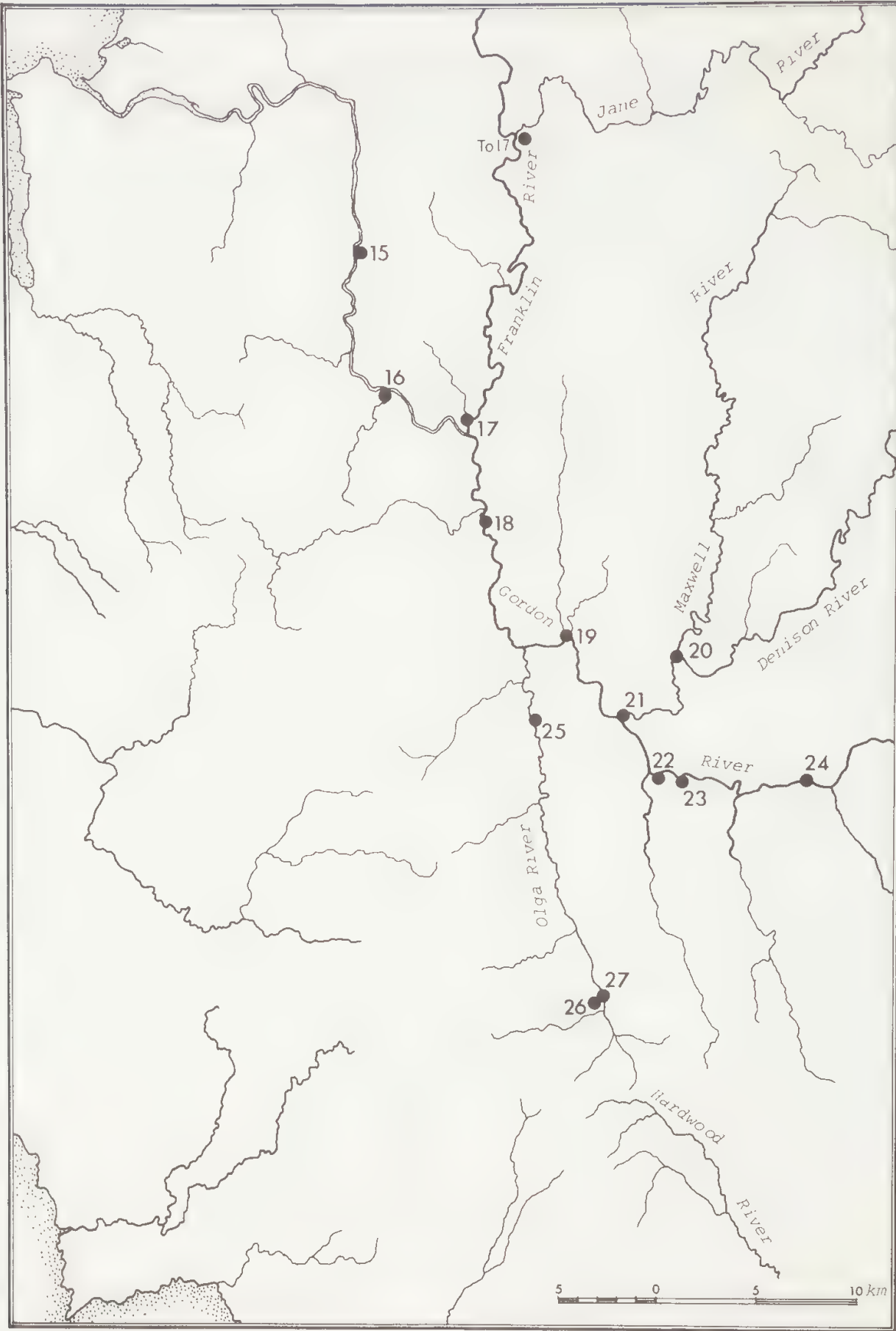
Map. 3. Investigation Area 2; Collecting sites 2-8





Map. 4. Investigation Area 3; Collecting sites 9-14





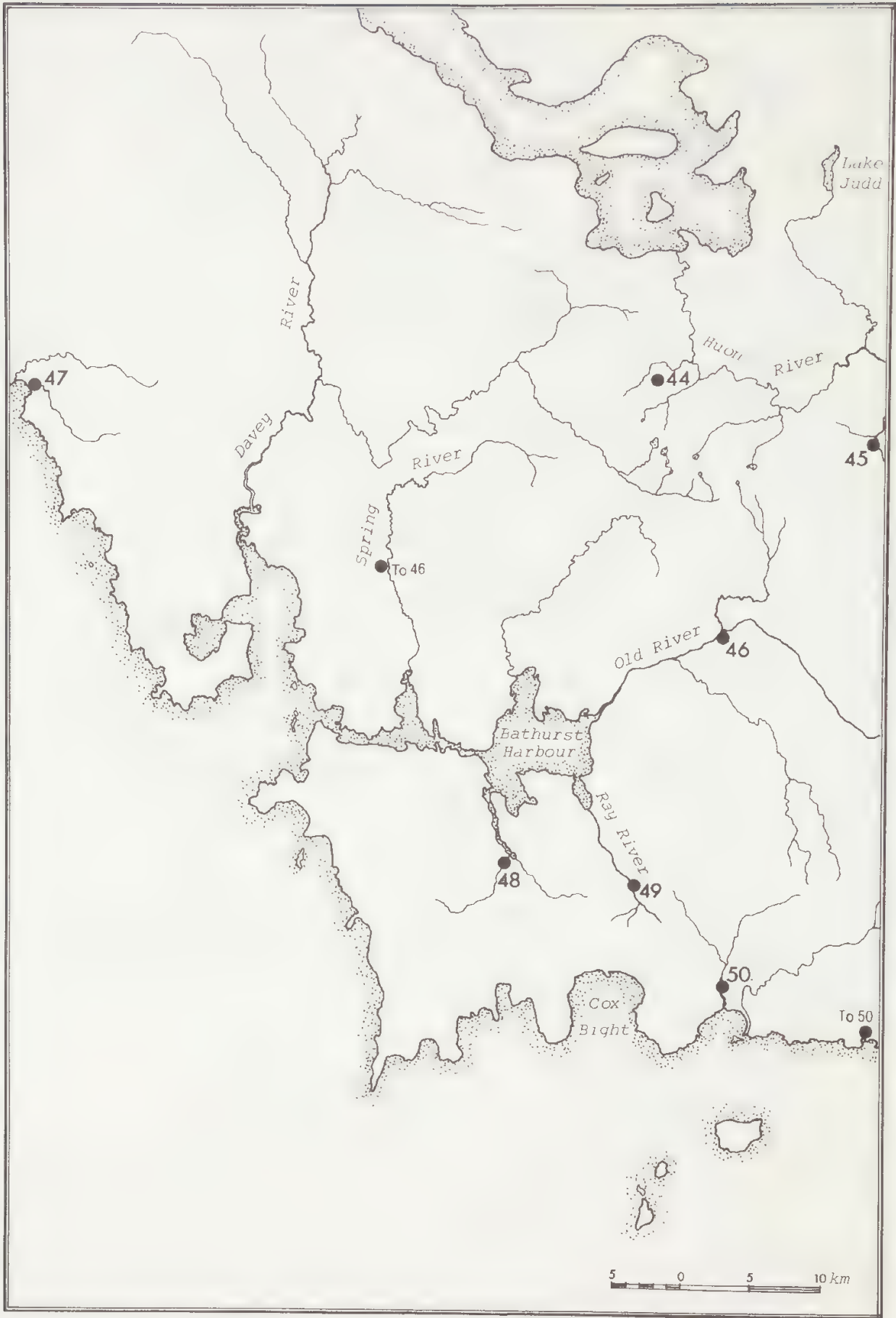
Map. 5. Investigation Area 4; Collecting sites 15-27





Map. 6. Investigation Area 5; Collecting sites 28-43





Map. 7. Investigation Area 6; Collecting sites 44-50





Map. 8. Investigation Area 6;  
Collecting sites 51-54

Investigation Area 7;  
Collecting sites 55-61



TRICHOPTERA SPECIES DISTRIBUTION IN TASMANIAN WHA.

TABLE 1.

SPECIES	INVESTIGATION AREAS						
	1	2	3	4	5	6	7
Trichoptera							
<u>Hydrobiosidae</u>							
Apsilochorema obliquum	x	x	x	x	x	x	x
Apsilochorema gisbum	x	x		x	x		x
Allochorema tasmanicum	x		x			x	x
Austrochorema pegidion			x		x		x
Austrochorema evansi							
Austrochorema crinitum						x	
Austrochorema lepnevae	x			x			
Austrochorema complexa	x			x	x		
Austrochorema sp.				x		x	
Ipsebiosis spicula	x	x			x	x	
Ulmerochorema breve	x		x		x	x	x
Ulmerochorema seona		x		x		x	x
Ulmerochorema lentum							
Ulmerochorema onychion							
Ulmerochorema tasmanicum		x		x		x	x
Ulmerochorema rubiconum	x	x		x	x	x	x
Ulmerochorema sp.				x			
Ethochorema secutum				x	x		
Ethochorema nesydrion	x	x	x	x	x	x	x
Ethochorema kelion			x	x	x	x	x
Ethochorema sp.			x	x	x		
Taschorema asmanum	x	x		x	x	x	
Taschorema apobamum	x	x		x	x	x	x
Taschorema ferulum							x
Taschorema viridarium	x			x	x	x	x
Taschorema pendunculatum	x			x	x	x	
Taschorema evansi		x		x	x	x	
Taschorema sp.						x	
Ptychobiosis nigrita	x	x	x		x	x	x
Koetonga clivicola	x			x	x	x	x
Moruya charadra	x	x		x	x	x	x
Moruya opora	x	x				x	x
Moruya tasmanica	x		x				
<u>Glossosomatidae</u>							
Agapetus tasmanicus	x			x	x	x	x
Agapetus cralus	x			x	x		x
Agapetus laparus				x	x	x	
<u>Hydroptilidae</u>							
Orphnino-trichia acta					x		
Orphnino-trichia maculata					x		
Hydroptila acinacis							
Hydroptila tasmanica				x			
Hydroptila scamandra							
Orthotrichia adornata							
Orthotrichia zonata				x			x
Hellyethira exserta				x			x
Hellyethira simplex				x	x	x	
Hellyethira multilobata				x	x		
Hellyethira basilobata							
Hellyethira malleoforma							
Oxyethira mienica							
Oxyethira columba	x			x	x	x	x
Maydenoptila explicata				x			
Maydenoptila cuneola				x	x	x	
Maydenoptila rupina							

TRICHOPTERA SPECIES DISTRIBUTION IN TASMANIAN WHA. TABLE 1.

SPECIES	INVESTIGATION AREAS						
	1	2	3	4	5	6	7
<u>Philopotamidae</u>							
Hydrobiosella corinna				x			
Hydrobiosella orba				x	x		
Hydrobiosella cerula				x	x		
Hydrobiosella anasina			x	x			
Hydrobiosella tasmanica				x	x	x	x
Hydrobiosella armata							
Hydrobiosella cognata	x	x					
Hydrobiosella sagitta							
Hydrobiosella waddama	x	x		x		x	x
Hydrobiosella sp.			x	x		x	
<u>Stenopsychidae</u>							
Stenopsychodes lineata							
<u>Hydropsychidae</u>							
Cheumatopsyche modica		x	x				
Smicrophylax creektona		x		x		x	x
Smicrophylax simplex	x						
Asmicridea edwardsi		x	x	x	x	x	x
Asmicridea grisea							
Diplectrona castanea							
Diplectrona lyella							
Diplectrona bispinosa							
Diplectrona tasmanica	x		x	x			
<u>Polycentropodidae</u>							
Plectrocnemia altera	x	x	x	x	x	x	x
Plectrocnemia lacuna							
Plectrocnemia manicata	x	x		x		x	x
Plectrocnemia caudata				x	x	x	x
Plectrocnemia sp.				x		x	
Tasmanoplegas spilota	x			x	x	x	
Tasmanoplegas sp.						x	
Nyctiophylax repandus				x			x
<u>Ecnomidae</u>							
Ecnomus tillyardi	x	x		x	x	x	x
Ecnomus russellius		x			x		
Ecnomus continentalis							
Ecnomus sp.				x			
Ecnomina irrorata	x	x		x	x	x	x
Ecnomina legula				x	x	x	x
Ecnomina vega							
Ecnomina batyle		x					
Ecnomina sp.				x	x	x	
<u>Limnephilidae</u>							
Archaeophylax ochreus	x	x	x			x	x
Archaeophylax vernalis					x	x	
<u>Plectrotarsidae</u>							
Plectrotarsus gravenhorsti							
Plectrotarsus tasmanicus		x	x	x	x	x	
Liapota lavara	x		x		x	x	
Nanoplectrus truchanasi						x	



TRICHOPTERA SPECIES DISTRIBUTION IN TASMANIAN WHA.

TABLE 1.

SPECIES	INVESTIGATION AREAS						
	1	2	3	4	5	6	7
<u>Oeconesidae</u>							
<i>Tascuna ignota</i>	x			x	x	x	
<u>Tasimiidae</u>							
<i>Tasimia palpata</i>							
<i>Tasimia denticulata</i>							
<i>Tasimia drepana</i>							x
<i>Tasiagma ciliata</i>							
<u>Conoesucidae</u>							
<i>Hampa patona</i>		x		x			x
<i>Matasia satana</i>					x		x
<i>Costora iena</i>							
<i>Costora delora</i>				x			
<i>Costora ebenina</i>	x						
<i>Costora ramosa</i>	x			x			
<i>Costora krene</i>					x	x	
<i>Costora seposita</i>		x	x				
<i>Costora luxata</i>	x					x	
<i>Costora rotosca</i>		x	x	x	x	x	x
<i>Costora sp.</i>		x			x	x	
<i>Lingora aurata</i>	x	x		x			
<i>Lingora vesca</i>							
<i>Conoesucus fromus</i>	x						
<i>Conoesucus norelus</i>	x	x		x		x	x
<i>Conoesucus digitiferus</i>	x	x	x	x	x	x	
<i>Conoesucus nepotulus</i>	x	x	x	x	x	x	
<i>Conoesucus brontensis</i>		x					
<i>Conoesucus sp.</i>				x	x		
<u>Helicopsychidae</u>							
<i>Helicopsyche bartona</i>	x						
<i>Helicopsyche murrumba</i>				x			x
<u>Calocidae</u>							
<i>Caloca tertia</i>						x	
<i>Caloca saneva</i>	x					x	
<i>Caloca ascita</i>		x					
<i>Caloca sp.</i>					x		
<i>Caenota plicata</i>		x	x	x	x	x	x
<i>Tamasia variegata</i>	x			x		x	
<u>Helicophidae</u>							
<i>Helicopha astia</i>							
<i>Helicopha delamarei</i>	x						
<i>Helicopha sp.</i>				x			
<i>Alloecella grisea</i>	x			x	x	x	x
<i>Alloecella longispina</i>	x	x	x	x	x	x	x
<i>Alloecella pilosa</i>	x	x		x	x	x	
<u>Kokiriidae</u>							
<i>Taskiria austera</i>				x	x	x	
<i>Taskiria mccubbini</i>					x		
<i>Taskiropsyche lacustris</i>					x		

TRICHOPTERA SPECIES DISTRIBUTION IN TASMANIAN WHA. TABLE 1.

SPECIES	INVESTIGATION AREAS						
	1	2	3	4	5	6	7
<u>Philorheithridae</u>							
<i>Austrheithrus ronewa</i>				x			x
<i>Austrheithrus glymma</i>				x			
<i>Austrheithrus</i> sp.				x			
<i>Kosrheithrus remulus</i>				x			
<i>Kosrheithrus</i> sp.				x			
<i>Ramiheithrus kocinus</i>							
<i>Aphilorheithrus stepheni</i>	x	x		x	x	x	x
<i>Aphilorheithrus pauxillus</i>				x			
<i>Aphilorheithrus decoratus</i>	x		x	x	x	x	
<i>Aphilorheithrus luteolus</i>						x	
<i>Aphilorheithrus</i> sp.					x	x	
<i>Tasmanthrus angustipennis</i>	x	x		x		x	x
<i>Tasmanthrus</i> sp.			x				
<u>Atriplectididae</u>							
<i>Atriplectides dubius</i>	x	x	x	x	x	x	x
<u>Calamoceratidae</u>							
<i>Anisocentropus latifascia</i>							
<u>Leptoceridae</u>							
<i>Westriplectes pedderensis</i>					x		
<i>Triplectides ciuskus</i>				x		x	
<i>Triplectides magnus</i>				x	x		
<i>Triplectides similis</i>				x	x		x
<i>Triplectides truncatus</i>				x	x		
<i>Triplectides bilobus</i>	x	x	x	x	x	x	x
<i>Triplectides proximus</i>							
<i>Triplectides elongatus</i>	x			x			
<i>Triplectides</i> sp.				x		x	
<i>Notoperata sparsa</i>	x		x		x	x	x
<i>Notoperata maculata</i>	x	x		x	x	x	x
<i>Symphitoneuria opposita</i>				x			
<i>Triplectidina nigricornis</i>	x	x		x	x		x
<i>Lectrides varians</i>			x	x	x	x	x
<i>Notalina parkeri</i>	x	x			x		
<i>Notalina fulva</i>		x	x	x	x	x	x
<i>Notalina tillyardi</i>							
<i>Notalina bifaria</i>	x	x		x	x	x	
<i>Notalina nigra</i>		x					
<i>Notalina</i> sp.				x	x	x	
<i>Condocerus paludosus</i>				x	x	x	x
<i>Leptorussa darlingtoni</i>				x	x		
<i>Triaenodes intricata</i>		x		x	x		x
<i>Oecetis pechana</i>					x		
<i>Oecetis umbra</i>	x			x			
<i>Oecetis gilva</i>							
<i>Oecetis australis</i>					x	x	
<i>Oecetis minasata</i>	x		x			x	x
<i>Oecetis laustra</i>				x	x	x	
<i>Oecetis asmanista</i>		x		x			x
<i>Oecetis arcada</i>	x		x	x	x	x	x
<i>Oecetis inscripta</i>		x					
<i>Oecetis scirpicula</i>					x		
<i>Oecetis</i> sp.				x	x	x	



TRICHOPTERA SPECIES DISTRIBUTION IN TASMANIAN WHA. TABLE 2.

SPECIES	SITES FOR INVESTIGATION AREAS 1 & 2.							
	AREA 1	AREA 2						
	1	2	3	4	5	6	7	8
Trichoptera								
<u>Hydrobiosidae</u>								
Apsilochorema obliquum	x					x	x	x
Apsilochorema gisbum	x	x	x					x
Allochorema tasmanicum	x							
Austrochorema pegidion								
Austrochorema evansi								
Austrochorema crinitum								
Austrochorema lepnevae	x							
Austrochorema complexa	x							
Ipsebiosis spicula	x	x						
Ulmerochorema breve	x							
Ulmerochorema seona		x						
Ulmerochorema lentum								
Ulmerochorema onychion								
Ulmerochorema tasmanicum		x						
Ulmerochorema rubiconum	x	x						x
Ethochorema secutum								
Ethochorema nesydrion	x					x	x	x
Ethochorema kelion								
Taschorema asmanum	x	x					x	
Taschorema apobamum	x	x					x	x
Taschorema ferulum								
Taschorema viridarium	x							
Taschorema pendunculatum	x							
Taschorema evansi		x	x					x
Ptychobiosis nigrita	x	x					x	
Koetonga clivicola	x							
Moruya charadra	x		x					x
Moruya opora	x	x					x	x
Moruya tasmanica	x							
<u>Glossosomatidae</u>								
Agapetus tasmanicus	x							
Agapetus cralus	x							
Agapetus laparus								
<u>Hydroptilidae</u>								
Orphnino-trichia acta								
Orphnino-trichia maculata								
Hydroptila acinacis								
Hydroptila tasmanica								
Hydroptila scamandra								
Orthotrichia adornata								
Orthotrichia zonata								
Hellyethira exserta								
Hellyethira simplex								
Hellyethira multilobata								
Hellyethira basilobata								
Hellyethira malleoforma								
Oxyethira mienica								
Oxyethira columba	x							
Maydenoptila explicata								
Maydenoptila cuneola								
Maydenoptila rupina								

TRICHOPTERA SPECIES DISTRIBUTION IN TASMANIAN WHA. TABLE 2.

SPECIES	SITES FOR INVESTIGATION AREAS 1 & 2.							
	AREA 1	AREA 2						
	1	2	3	4	5	6	7	8
<u>Philopotamidae</u>								
Hydrobiosella corinna								
Hydrobiosella orba								
Hydrobiosella cerula								
Hydrobiosella anasina								
Hydrobiosella tasmanica								
Hydrobiosella armata								
Hydrobiosella cognata	x		x			x		x
Hydrobiosella sagitta							x	
Hydrobiosella waddama	x							
<u>Stenopsychidae</u>								
Stenopsychodes lineata								
<u>Hydropsychidae</u>								
Cheumatopsyche modica		x						
Smicrophylax creektona								x
Smicrophylax simplex	x							
Asmicridea edwardsi		x	x				x	
Asmicridea grisea								
Diplectrona castanea								
Diplectrona lyella								
Diplectrona bispinosa								
Diplectrona tasmanica	x							
<u>Polycentropodidae</u>								
Plectrocnemia altera	x	x						
Plectrocnemia lacuna								
Plectrocnemia manicata	x	x					x	
Plectrocnemia caudata								
Tasmanoplegas spilota	x							
Nyctiophylax repandus								
<u>Ecnomidae</u>								
Ecnomus tillyardi	x	x					x	
Ecnomus russellius				x				
Ecnomus continentalis								
Ecnomina irrorata	x	x	x				x	
Ecnomina legula								
Ecnomina vega								
Ecnomina batyle		x						
<u>Limnephilidae</u>								
Archaeophylax ochreus	x		x				x	
Archaeophylax vernalis								
<u>Plectrotarsidae</u>								
Plectrotarsus gravenhorsti								
Plectrotarsus tasmanicus		x	x					
Liapota lavara	x							
Nanoplectrus truchanasi								



TRICHOPTERA SPECIES DISTRIBUTION IN TASMANIAN WHA. TABLE 2.

SPECIES	SITES FOR INVESTIGATION AREAS 1 & 2.							
	AREA 1	AREA 2						
	1	2	3	4	5	6	7	8
<u>Oeconesidae</u>								
Tascuna ignota	x							
<u>Tasimiidae</u>								
Tasimia palpata								
Tasimia denticulata								
Tasimia drepana								
Tasiagma ciliata								
<u>Conoesucidae</u>								
Hampa patona							x	
Matasia satana								
Costora iena								
Costora delora								
Costora ebenina	x							
Costora ramosa	x							
Costora krene								
Costora seposita					x			
Costora luxata	x							
Costora rotosca		x			x			
Costora sp.				x				
Lingora aurata	x	x		x	x			
Lingora vesca								
Conoesucus fromus	x							
Conoesucus norelus	x	x		x			x	x
Conoesucus digitiferus	x			x	x			
Conoesucus nepotulus	x			x		x		x
Conoesucus brontensis					x			x
<u>Helicopsychoidea</u>								
Helicopsyche bartona	x							
Helicopsyche murrumba								
<u>Calocidae</u>								
Caloca tertia								
Caloca saneva	x							
Caloca ascita			x					
Caenota plicata							x	
Tamasia variegata	x							
<u>Helicophidae</u>								
Helicopha astia								
Helicopha delamarei	x							
Alloecella grisea	x							
Alloecella longispina	x	x			x		x	
Alloecella pilosa	x			x	x			x
<u>Kokiriidae</u>								
Taskiria austera								
Taskiria mccubbini								
Taskiropsyche lacustris								

TRICHOPTERA SPECIES DISTRIBUTION IN TASMANIAN WHA. TABLE 2.

SPECIES	SITES FOR INVESTIGATION AREAS 1 & 2.							
	AREA 1		AREA 2					
	1	2	3	4	5	6	7	8
<u>Philorheithridae</u>								
<i>Austrheithrus ronewa</i>								
<i>Austrheithrus glymma</i>								
<i>Kosrheithrus remulus</i>								
<i>Ramiheithrus kocinus</i>								
<i>Aphilorheithrus stepheni</i>	x	x	x					
<i>Aphilorheithrus pauxillus</i>	x							
<i>Aphilorheithrus decoratus</i>								
<i>Aphilorheithrus luteolus</i>								
<i>Tasmanthrus angustipennis</i>	x		x				x	x
<u>Atriplectididae</u>								
<i>Atriplectides dubius</i>	x	x		x			x	
<u>Calamoceratidae</u>								
<i>Anisocentropus latifascia</i>								
<u>Leptoceridae</u>								
<i>Westriplectes pedderensis</i>								
<i>Triplectides ciuskus</i>								
<i>Triplectides magnus</i>								
<i>Triplectides similis</i>								
<i>Triplectides truncatus</i>								
<i>Triplectides bilobus</i>	x	x					x	
<i>Triplectides proximus</i>								
<i>Triplectides elongatus</i>	x							
<i>Notoperata sparsa</i>	x							
<i>Notoperata maculata</i>	x	x						
<i>Symphitoneuria opposita</i>								
<i>Triplectidina nigricornis</i>	x	x					x	
<i>Lectrides varians</i>								
<i>Notalina parkeri</i>	x		x					
<i>Notalina fulva</i>		x						
<i>Notalina tillyardi</i>								
<i>Notalina bifaria</i>	x	x					x	
<i>Notalina nigra</i>			x	x	x			
<i>Condocerus paludosus</i>								
<i>Leptorussa darlingtoni</i>								
<i>Triacnoides intricata</i>		x						
<i>Oecetis pechana</i>								
<i>Oecetis umbra</i>	x							
<i>Oecetis gilva</i>								
<i>Oecetis australis</i>								
<i>Oecetis minasata</i>	x							
<i>Oecetis laustra</i>								
<i>Oecetis asmanista</i>		x						
<i>Oecetis arcada</i>	x							
<i>Oecetis inscripta</i>		x						
<i>Oecetis scirpicula</i>								



TRICHOPTERA SPECIES DISTRIBUTION IN TASMANIAN WHA. TABLE 3.						
SPECIES	SITES FOR INVESTIGATION AREA 3.					
	9	1 0	1 1	1 2	1 3	1 4
Trichoptera						
<u>Hydrobiosidae</u>						
Apsilochorema obliquum	x					
Apsilochorema gisbum						
Allochorema tasmanicum	x					
Austrochorema pegidion	x				x	
Austrochorema evansi						
Austrochorema crinitum						
Austrochorema lepnevae						
Austrochorema complexa						
Ipsebiosis spicula						
Ulmerochorema breve	x					
Ulmerochorema seona						
Ulmerochorema lentum						
Ulmerochorema onychion						
Ulmerochorema tasmanicum						
Ulmerochorema rubiconum						
Ethochorema secutum						
Ethochorema nesydrion	x					
Ethochorema kelion	x				x	
Ethochorema sp.	x					
Taschorema asmanum						
Taschorema apobamum						
Taschorema ferulum						
Taschorema viridarium						
Taschorema pendunculatum						
Taschorema evansi						
Ptychobiosis nigrita	x					
Koetonga clivicola						
Moruya charadra						
Moruya opora						
Moruya tasmanica	x					
<u>Glossosomatidae</u>						
Agapetus tasmanicus						
Agapetus cralus						
Agapetus laparus						
<u>Hydroptilidae</u>						
Orphninostrichia acta						
Orphninostrichia maculata						
Hydroptila acinacis						
Hydroptila tasmanica						
Hydroptila scamandra						
Orthotrichia adornata						
Orthotrichia zonata						
Hellyethira exserta						
Hellyethira simplex						
Hellyethira multilobata						
Hellyethira basilobata						
Hellyethira malleoforma						
Oxyethira mienica						
Oxyethira columba						
Maydenoptila explicata						
Maydenoptila cuneola						
Maydenoptila rupina						

TRICHOPTERA SPECIES DISTRIBUTION IN TASMANIAN WHA. TABLE 3.

SPECIES	SITES FOR INVESTIGATION AREA 3.					
	9	1 0	1 1	1 2	1 3	1 4
<u>Philopotamidae</u>						
Hydrobiosella corinna						
Hydrobiosella orba						
Hydrobiosella cerula						
Hydrobiosella anasina	x					
Hydrobiosella tasmanica						
Hydrobiosella armata						
Hydrobiosella cognata						
Hydrobiosella sagitta						
Hydrobiosella waddama						
Hydrobiosella sp.	x					
<u>Stenopsychidae</u>						
Stenopsychodes lineata						
<u>Hydropsychidae</u>						
Cheumatopsyche modica	x					
Smicrophylax creektona						
Smicrophylax simplex						
Asmicridea edwardsi				x		x
Asmicridea grisea						
Diplectrona castanea						
Diplectrona lyella						
Diplectrona bispinosa						
Diplectrona tasmanica	x					x
<u>Polycentropodidae</u>						
Plectrocnemia altera				x		
Plectrocnemia lacuna						
Plectrocnemia manicata						
Plectrocnemia caudata						
Tasmanoplegas spilota						
Nyctiophylax repandus						
<u>Ecnomidae</u>						
Ecnomus tillyardi						
Ecnomus russellius						
Ecnomus continentalis						
Ecnomina irrorata						
Ecnomina legula						
Ecnomina vega						
Ecnomina batyle						
<u>Limnephilidae</u>						
Archaeophylax ochreus	x					
Archaeophylax vernalis						
<u>Plectrotarsidae</u>						
Plectrotarsus gravenhorsti						
Plectrotarsus tasmanicus	x	x		x		
Liapota lavara			x	x	x	
Nanoplectrus truchanasi						



TRICHOPTERA SPECIES DISTRIBUTION IN TASMANIAN WHA. TABLE 3.						
SPECIES	SITES FOR INVESTIGATION AREA 3.					
	9	1 0	1 1	1 2	1 3	1 4
<u>Oeconesidae</u>						
Tascuna ignota						
<u>Tasimiidae</u>						
Tasimia palpata						
Tasimia denticulata						
Tasimia drepana						
Tasiagma ciliata						
<u>Conoesucidae</u>						
Hampa patona						
Matasia satana						
Costora iena						
Costora delora						
Costora ebenina						
Costora ramosa						
Costora krene						
Costora seposita						x
Costora luxata						
Costora rotosca						x
Lingora aurata						
Lingora vesca						
Conoesucus fromus						
Conoesucus norelus						
Conoesucus digitiferus						x
Conoesucus nepotulus						x
Conoesucus brontensis						
<u>Helicopsychidae</u>						
Helicopsyche bartona						
Helicopsyche murrumba						
<u>Calocidae</u>						
Caloca tertia						
Caloca saneva						
Caloca ascita						
Caenota plicata	x					
Tamasia variegata						
<u>Helicophidae</u>						
Helicopha astia						
Helicopha delamarei						
Alloecella grisea						
Alloecella longispina	x					x
Alloecella pilosa						
<u>Kokiriidae</u>						
Taskiria austera						
Taskiria mccubbini						
Taskiropsyche lacustris						

TRICHOPTERA SPECIES DISTRIBUTION IN TASMANIAN WHA. TABLE 3.

SPECIES	SITES FOR INVESTIGATION AREA 3.					
	9	1 0	1 1	1 2	1 3	1 4
<u>Philorheithridae</u>						
<i>Austrheithrus ronewa</i>						
<i>Austrheithrus glymma</i>						
<i>Kosrheithrus remulus</i>						
<i>Ramiheithrus kocinus</i>						
<i>Aphilorheithrus stepheni</i>						
<i>Aphilorheithrus pauxillus</i>						
<i>Aphilorheithrus decoratus</i>	x				x	
<i>Aphilorheithrus luteolus</i>						
<i>Tasmanthrus angustipennis</i>						
<i>Tasmanthrus sp.</i>			x			
<u>Atriplectididae</u>						
<i>Atriplectides dubius</i>	x					x
<u>Calamoceratidae</u>						
<i>Anisocentropus latifascia</i>						
<u>Leptoceridae</u>						
<i>Westriplectes pedderensis</i>						
<i>Triplectides ciuskus</i>						
<i>Triplectides magnus</i>						
<i>Triplectides similis</i>						
<i>Triplectides truncatus</i>						
<i>Triplectides bilobus</i>	x					x
<i>Triplectides proximus</i>						
<i>Triplectides elongatus</i>						
<i>Notoperata sparsa</i>	x					x
<i>Notoperata maculata</i>						
<i>Symphitoneuria opposita</i>						
<i>Triplectidina nigricornis</i>						
<i>Lectrides varians</i>	x					
<i>Notalina parkeri</i>						
<i>Notalina fulva</i>						x
<i>Notalina tillyardi</i>						
<i>Notalina bifaria</i>						
<i>Notalina nigra</i>						
<i>Condocerus paludosus</i>						
<i>Leptorussa darlingtoni</i>						
<i>Trienodes intricata</i>						
<i>Oecetis pechana</i>						
<i>Oecetis umbra</i>						
<i>Oecetis gilva</i>						
<i>Oecetis australis</i>						
<i>Oecetis minasata</i>	x					
<i>Oecetis laustra</i>						
<i>Oecetis asmanista</i>						
<i>Oecetis arcada</i>	x					
<i>Oecetis inscripta</i>						
<i>Oecetis scirpicula</i>						









[illegible]

TRICHOPTERA SPECIES DISTRIBUTION IN TASMANIAN WHA.										TABLE 4.				
SPECIES	SITES FOR INVESTIGATION AREA 4.													
	1 5	1 6	1 7	1 8	1 9	2 0	2 1	2 2	2 3	2 4	2 5	2 6	2 7	
<u>Philorheithridae</u>														
Austrheithrus ronewa								x						
Austrheithrus glymma			x					x	x					
Austrheithrus sp.		x	x		x	x					x			
Kosrheithrus remulus				x	x									
Kosrheithrus sp.								x	x					
Ramiheithrus kocinus														
Aphilorheithrus stepheni						x		x				x	x	
Aphilorheithrus pauxillus						x					x	x	x	
Aphilorheithrus decoratus		x							x					
Aphilorheithrus luteolus														
Tasmanthrus angustipennis			x	x	x	x	x	x	x	x	x	x	x	
<u>Atriplectididae</u>														
Atriplectides dubius		x	x	x									x	
<u>Calamoceratidae</u>														
Anisocentropus latifascia														
<u>Leptoceridae</u>														
Westriplectes pedderensis														
Triplectides ciuskus		x	x	x		x					x			
Triplectides magnus											x			
Triplectides similis										x			x	
Triplectides truncatus					x							x		
Triplectides bilobus		x	x			x		x	x	x			x	
Triplectides proximus														
Triplectides elongatus												x		
Triplectides sp.											x		x	
Notoperata sparsa														
Notoperata maculata										x			x	
Symphitoneuria opposita	x													
Triplectidina nigricornis											x	x	x	
Lectrides varians		x											x	
Notalina parkeri														
Notalina fulva		x	x		x	x		x	x	x			x	
Notalina tillyardi														
Notalina bifaria			x			x				x	x		x	
Notalina nigra														
Notalina sp.	x		x	x			x		x					
Condocerus paludosus												x	x	
Leptorussa darlingtoni			x											
Triadenodes intricata								x				x		
Oecetis pechana														
Oecetis umbra												x		
Oecetis gilva														
Oecetis australis														
Oecetis minasata														
Oecetis laustra												x	x	
Oecetis asmanista			x									x		
Oecetis arcada		x	x			x		x	x			x	x	
Oecetis inscripta														
Oecetis scirpicula														
Oecetis sp.								x					x	



TRICHOPTERA SPECIES DISTRIBUTION IN TASMANIAN WHA. TABLE 5.

[illegible]









TABLE 6.

[illegible]





TRICHOPTERA SPECIES DISTRIBUTION IN TASMANIAN WHA. TABLE 6.

[illegible]

TRICHOPTERA SPECIES DISTRIBUTION IN TASMANIAN WHA. TABLE 6.

SPECIES	SITES FOR INVESTIGATION AREA 6.										
	4 4	4 5	4 6	4 7	4 8	4 9	5 0	5 1	5 2	5 3	5 4
<u>Philorheithridae</u>											
<i>Austrheithrus ronewa</i>											
<i>Austrheithrus glymma</i>											
<i>Kosrheithrus remulus</i>											
<i>Ramiheithrus kocinus</i>											
<i>Aphilorheithrus stepheni</i>	x										x
<i>Aphilorheithrus pauxillus</i>											
<i>Aphilorheithrus decoratus</i>			x	x	x						x
<i>Aphilorheithrus luteolus</i>		x									
<i>Aphilorheithrus sp.</i>								x			
<i>Tasmanthrus angustipennis</i>	x	x	x				x				x
<u>Atriplectididae</u>											
<i>Atriplectides dubius</i>	x	x	x	x				x			
<u>Calamoceratidae</u>											
<i>Anisocentropus latifascia</i>											
<u>Leptoceridae</u>											
<i>Westriplectes pedderensis</i>											
<i>Triplectides ciuskus</i>	x			x							
<i>Triplectides magnus</i>											
<i>Triplectides similis</i>											
<i>Triplectides truncatus</i>											
<i>Triplectides bilobus</i>	x		x	x		x	x	x			x
<i>Triplectides proximus</i>											
<i>Triplectides elongatus</i>											
<i>Triplectides sp.</i>					x						
<i>Notoperata sparsa</i>	x		x		x			x		x	x
<i>Notoperata maculata</i>	x				x	x	x	x			
<i>Symphitoneuria opposita</i>											
<i>Triplectidina nigricornis</i>											
<i>Lectrides varians</i>				x							
<i>Notalina parkeri</i>											
<i>Notalina fulva</i>			x			x		x			
<i>Notalina tillyardi</i>											
<i>Notalina bifaria</i>	x		x		x						x
<i>Notalina nigra</i>											
<i>Notalina sp.</i>				x							
<i>Condocerus paludosus</i>	x										
<i>Leptorussa darlingtoni</i>											
<i>Triaenodes intricata</i>											
<i>Oecetis pechana</i>											
<i>Oecetis umbra</i>											
<i>Oecetis gilva</i>											
<i>Oecetis australis</i>			x	x							
<i>Oecetis minasata</i>											x
<i>Oecetis laustra</i>			x								
<i>Oecetis asmanista</i>											
<i>Oecetis arcada</i>	x	x	x	x	x	x		x			x
<i>Oecetis inscripta</i>											
<i>Oecetis scirpicula</i>											
<i>Oecetis sp.</i>								x			

TRICHOPTERA SPECIES DISTRIBUTION IN TASMANIAN WHA. TABLE 7.							
SPECIES	SITES FOR INVESTIGATION AREA 7.						
	5 5	5 6	5 7	5 8	5 9	6 0	6 1
Trichoptera							
Hydrobiosidae							
Apsilochorema obliquum		x		x	x		
Apsilochorema gisbum	x		x		x		
Allochorema tasmanicum							x
Austrochorema pegidion	x						
Austrochorema evansi							
Austrochorema crinitum							
Austrochorema lepnevae							
Austrochorema complexa							
Ipsebiosis spicula							
Ulmerochorema breve	x						
Ulmerochorema seona					x		x
Ulmerochorema lentum							
Ulmerochorema onychion							
Ulmerochorema tasmanicum	x				x		
Ulmerochorema rubiconum					x		
Ethochorema secutum							
Ethochorema nesydrion	x	x			x		
Ethochorema kelion			x				
Taschorema asmanum							
Taschorema apobamum	x		x		x		
Taschorema ferulum					x		
Taschorema viridarium					x		
Taschorema pendunculatum							
Taschorema evansi							
Ptychobiosis nigrita					x		
Koetonga clivicola		x					
Moruya charadra		x	x		x		x
Moruya opora	x				x		
Moruya tasmanica							
Glossosomatidae							
Agapetus tasmanicus	x			x	x		
Agapetus cralus							x
Agapetus laparus							
Hydroptilidae							
Orphnino-trichia acta							
Orphnino-trichia maculata							
Hydroptila acinacis							
Hydroptila tasmanica							
Hydroptila scamandra							
Orthotrichia adornata							
Orthotrichia zonata	x				x		
Hellyethira exserta					x		
Hellyethira simplex							
Hellyethira multilobata							
Hellyethira basilobata							
Hellyethira malleoforma							
Oxyethira mienica							
Oxyethira columba					x		
Maydenoptila explicata							
Maydenoptila cuneola							
Maydenoptila rupina							



TRICHOPTERA SPECIES DISTRIBUTION IN TASMANIAN WHA. TABLE 7.

SPECIES	SITES FOR INVESTIGATION AREA 7.						
	5 5	5 6	5 7	5 8	5 9	6 0	6 1
<u>Philopotamidae</u>							
Hydrobiosella corinna							
Hydrobiosella orba							
Hydrobiosella cerula							
Hydrobiosella anasina							
Hydrobiosella tasmanica		x		x			x
Hydrobiosella armata							
Hydrobiosella cognata							
Hydrobiosella sagitta							
Hydrobiosella waddama	x				x		
<u>Stenopsychidae</u>							
Stenopsychodes lineata							
<u>Hydropsychidae</u>							
Cheumatopsyche modica							
Smicrophylax creektona					x		x
Smicrophylax simplex							
Asmicridea edwardsi	x				x	x	
Asmicridea grisea							
Diplectrona castanea							
Diplectrona lyella							
Diplectrona bispinosa							
Diplectrona tasmanica							
<u>Polycentropodidae</u>							
Plectrocnemia altera					x		
Plectrocnemia lacuna							
Plectrocnemia manicata	x				x	x	
Plectrocnemia caudata					x		
Tasmanoplegas spilota							
Nyctiophylax repandus	x				x	x	
<u>Ecnomidae</u>							
Ecnomus tillyardi	x				x	x	
Ecnomus russellius							
Ecnomus continentalis							
Ecnomina irrorata	x				x	x	
Ecnomina legula						x	
Ecnomina vega							
Ecnomina batyle							
<u>Limnephilidae</u>							
Archaeophylax ochreus	x				x	x	
Archaeophylax vernalis							
<u>Plectrotarsidae</u>							
Plectrotarsus gravenhorsti							
Plectrotarsus tasmanicus							
Liapota lavara							
Nanoplectrus truchanasi							

TRICHOPTERA SPECIES DISTRIBUTION IN TASMANIAN WHA.      TABLE 7.

SPECIES	SITES FOR INVESTIGATION AREA 7.						
	5 5	5 6	5 7	5 8	5 9	6 0	6 1
<u>Oeconesidae</u>							
Tascuna ignota							
<u>Tasimiidae</u>							
Tasimia palpata							
Tasimia denticulata							
Tasimia drepana					x		
Tasiagma ciliata							
<u>Conoesucidae</u>							
Hampa patona	x				x		
Matasia satana							x
Costora iena							
Costora delora							
Costora ebenina							
Costora ramosa							
Costora krene							
Costora seposita							
Costora luxata							
Costora rotosca	x				x	x	
Lingora aurata							
Lingora vesca							
Conoesucus fromus							
Conoesucus norelus					x		
Conoesucus digitiferus							
Conoesucus nepotulus							
Conoesucus brontensis							
<u>Helicopsychidae</u>							
Helicopsyche bartona							
Helicopsyche murrumba						x	
<u>Calocidae</u>							
Caloca tertia							
Caloca saneva							
Caloca ascita							
Caenota plicata					x		
Tamasia variegata							
<u>Helicophidae</u>							
Helicopha astia							
Helicopha delamarei							
Alloecella grisea							x
Alloecella longispina	x			x	x		
Alloecella pilosa							
<u>Kokiriidae</u>							
Taskiria austera							
Taskiria mccubbini							
Taskiropsyche lacustris							

TRICHOPTERA SPECIES DISTRIBUTION IN TASMANIAN WHA. TABLE 7.

SPECIES	SITES FOR INVESTIGATION AREA 7.						
	5 5	5 6	5 7	5 8	5 9	6 0	6 1
<u>Philorheithridae</u>							
Austrheithrus ronewa						x	
Austrheithrus glymma							
Kosrheithrus remulus							
Ramiheithrus kocinus							
Aphilorheithrus stepheni	x				x		
Aphilorheithrus pauxillus							
Aphilorheithrus decoratus							
Aphilorheithrus luteolus							
Tasmanthrus angustipennis	x				x	x	
<u>Atriplectididae</u>							
Atriplectides dubius	x				x	x	
<u>Calamoceratidae</u>							
Anisocentropus latifascia							
<u>Leptoceridae</u>							
Westriplectes pedderensis							
Triplectides ciuskus							
Triplectides magnus							
Triplectides similis					x		
Triplectides truncatus							
Triplectides bilobus	x				x	x	
Triplectides proximus							
Triplectides elongatus							
Notoperata sparsa					x		
Notoperata maculata					x		
Symphitoneuria opposita							
Triplectidina nigricornis	x				x		
Lectrides varians					x		
Notalina parkeri							
Notalina fulva						x	
Notalina tillyardi							
Notalina bifaria							
Notalina nigra							
Condocerus paludosus					x		
Leptorussa darlingtoni							
Trienodes intricata					x		
Oecetis pechana							
Oecetis umbra							
Oecetis gilva							
Oecetis australis							
Oecetis minasata		x					
Oecetis laustra							
Oecetis asmanista	x				x		
Oecetis arcada		x			x	x	
Oecetis inscripta							
Oecetis scirpicula							





# Types of Trichoptera (Insecta) held in the Museum of Victoria

A. Neboiss and K. Walker

Department of Entomology, Museum of Victoria, 71 Victoria Crescent, Abbotsford, Victoria 3067, Australia

Abstract. Neboiss, A. and Walker, K. 1989. Types of Trichoptera (Insecta) held in the Museum of Victoria. *Occasional Papers from the Museum of Victoria* 4: 43-56.

The type designations, registration numbers and type localities of type specimens of 235 nominal species of Australian and other south-west Pacific caddis-flies held in the Museum of Victoria collection are recorded.

## Introduction

Almost all caddis-fly (Trichoptera) type material described before 1950 was deposited in overseas museums, particularly the British Museum (Natural History), London. Few types were lodged in Australian museums. Interest in the aquatic insect fauna developed in the late 1950s and types of species described by local entomologists were deposited either in the Australian National Insect Collection, Canberra, or in one of the State museums. The Museum of Victoria (formerly National Museum of Victoria) contains the majority of species described by A. Neboiss (between 1959 and 1986), J.C. Morse and A. Neboiss (1982), A. Wells between 1979 and 1984 a few species by F. Schmid (1969, 1987) and M.E. Mosely (1953).

Most of the 235 species represented by type material are preserved in glass vials in 80% ethanol, only a small number are staged and dry mounted on pins. The holotypes and allotypes bear red and paratypes blue Museum type registration labels. All types have a registration number beginning with the prefix "T". Specimens with dissected abdomen (or genitalia preparation) are indicated with a yellow label and a note book number with the prefix "PT"; however, before 1973, the prefix "T" was used for approximately 250 preparations on white labels. The term "allotype", although not recognized by the International Code of Zoological Nomenclature, has been used on specimens and appears as such in this catalogue.

The species names in this catalogue are arranged in alphabetic order followed by the original genus and family. The next line gives author, year and page numbers of the original publication. The complete reference is given at the end of the catalogue. Any taxonomic changes, synonymies or other comments are given in the remarks.

This catalogue has been extracted from the computer type-register and gives type designation, register numbers, localities and collectors of 235 nominal Australian and south-west Pacific Trichoptera species deposited and held in the Museum of Victoria collection to June 1988. All type data is stored using the TITAN Database.

The John Curtis collection of British insects formed before 1850, purchased by the National Museum of Victoria and received in 1863 is kept as a separate entity. This collection contains 491 specimens of Trichoptera of which 72 have been designated as lectotypes and a further 21 as "lectoallotypes" (paralectotypes). These specimens represent 45 valid European caddis-fly species and 27 are junior synonyms. In a review of the Curtis collection of Trichoptera the taxonomic status of the species was discussed by Neboiss (1963). The types of this collection are not numbered and are not yet included in the computer list.

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- aberrans, Orthotrichia** (Hydroptilidae)  
Wells, 1979c: 621.  
Holotype ♂: T-5857 Vic. Mitta Mitta River, 8 km NE of Benambra, 5 Feb 1974, A. Neboiss.  
Paratypes ♂: T-5858-5859 Vic. Macalister-Barkly River junction, Lyndon Flat, 6 Dec 1977, NMV Survey Dept, GRES, Mc14.
- ablusus, Agapetus** (Glossosomatidae)  
Neboiss, 1986: 214.  
Holotype ♂: T-8178 Vic. Dee River, 2 km NW of Millgrove, 24 Feb 1976, A. Neboiss.  
Paratypes ♂: T-8179-8180 Same data as holotype.  
Paratypes ♂: T-8181-8182 Vic. Cement Creek, 22 Feb 1953, A. Neboiss.  
Paratypes ♂, ♀: T-8183-8187 Vic. Cement Creek, 5 Feb 1955, A. Neboiss.  
Paratypes ♂: T-8188-8190 Vic. Britannia Creek, 6 km S of Warburton, 27 Feb 1976, A. Neboiss.  
Paratype ♂: T-8191 Vic. Millgrove, 9 Jan 1957, A. Neboiss.  
Paratypes ♂: T-8192-8193 Vic. 3 km W Beenak, 7 Jan 1972, A. Neboiss.  
Paratypes ♂, ♀: T-8194-8197 Vic. 3 km SW of Tanjil Bren, 13 Jan 1981, A. Neboiss.  
Remarks: T-8179 (♂) gen. prep. PT-1312; T-8196 (♀) gen. prep. PT-1355.
- acinacis, Hydroptila** (Hydroptilidae)  
Wells, 1979a: 755.  
Holotype ♂: T-6001 Vic. Koornalla, Traralgon Creek, 26 Feb 1974, LaTrobe River Env. Survey, site 24a.  
Allotype ♀: T-6002 Same data as holotype.  
Paratypes ♂, ♀: T-5941-5960 Same data as holotype.  
Remarks: T-6001 (♂) Specimen mounted on microscope slide; T-6002 (♀) Specimen mounted on microscope slide.
- acta, Orphninostrichia** (Hydroptilidae)  
Neboiss, 1977: 40.  
Holotype ♂: T-4997 Tas. Ulverstone, 4 km NW coastal Waterfalls, 18 Nov 1972, A. Neboiss.  
Allotype ♀: T-4998 Same data as holotype.
- Paratypes ♂: T-4999-5010 Same data as holotype.  
Remarks: T-4999 (♂) gen. prep. PT-226.
- acuta, Tamasia** (Calocidae)  
Neboiss, 1984d: 86.  
Holotype ♂: T-9443 Vic. Matlock Creek off Thomson Portal road, 14 km W of Aberfeldy, 10 Feb 1977, A. Calder.  
Allotype ♀: T-9444 Same data as holotype.  
Paratypes ♂, ♀: T-9445-9489 Same data as holotype.  
Remarks: T-9445 (♂) gen. prep. PT-1177; T-9446 (♀) gen. prep. PT-1195; T-9447 (♂) in copula with T-9448 (♀).
- adornata, Orthotrichia** (Hydroptilidae)  
Wells, 1979c: 590.  
Holotype ♂: T-5817 Vic. Yarra River, Millgrove, 24 Feb 1976, A. Neboiss.  
Allotype ♀: T-5870 Same data as holotype.  
Paratypes ♂: T-5860-5869 Same data as holotype.  
Paratypes ♀: T-5871-5880 Same data as holotype.
- akroreia, Tanjilana** (Hydrobiosidae)  
Neboiss, 1962: 549.  
Paratype ♀: T-5519 Vic. Cumberland Falls, 16 Feb 1958, A. Neboiss.
- alpinum, Austrochorema** (Hydrobiosidae)  
Neboiss, 1962: 534.  
Paratypes ♂, ♀: T-5513-5515 Vic. Timbertop nr Merrijig, 5 Jun 1958, I.F. Edwards.  
Remarks: T-5515 (♀) gen. prep. PT-72, abdomen with specimen in alcohol.
- altenogus, Triplectides** (Leptoceridae)  
Morse and Neboiss, 1982: 77.  
Paratypes ♂: T-7480-7482 Qld Peter's Creek, Conondale Range via Bellthorpe, 29 Nov 1974, S.R. Monteith.  
Remarks: T-7480 (♀) gen. prep. PT-835.
- altera, Plectrocnemia** (Polycentropodidae)  
Neboiss, 1977: 60.  
Holotype ♂: T-4931 Tas. Waldheim Cradle Nat Pk, 7 Feb 1971, A. Neboiss.  
Allotype ♀: T-4932 Same data as holotype.  
Paratypes ♂, ♀: T-4933-4942 Same data as holotype.  
Paratype ♂: T-4943 Tas. Ouse River, 5 mi W of Miena, 28 Feb 1967, A. Neboiss.  
Remarks: T-4933 (♂) gen. prep. PT-168; T-4932 (♂) gen. prep. PT-272; T-4939 (♀) gen. prep. PT-273.
- amblyopia, Hydrobiosella** (Philopotamidae)  
Neboiss, 1982a: 284.  
Holotype ♂: T-6124 WA. Beedelup Falls, 8 Dec 1979, J. Blyth.  
Paratypes ♂, ♀: T-6125-6126 WA. Beedelup Falls, 13 Nov 1968, E.F. Riek.  
Remarks: T-6125 (♂) gen. prep. PT-671 dry mounted specimen; T-6126 (♀) gen. prep. PT-674 dry mounted specimen.
- anasina, Hydrobiosella** (Philopotamidae)  
Neboiss, 1977: 48.  
Holotype ♂: T-5226 Tas. Duck River, 6 km SW Roger River, 29 Nov 1974, A. Neboiss.  
Allotype ♀: T-5227 Same data as holotype.  
Paratypes ♂, ♀: T-5228-5255 Same data as holotype.  
Remarks: T-5228 (♂) gen. prep. PT-474.
- aneityuma, Goera** (Goeridae)  
Neboiss, 1986: 220.  
Paratypes ♂, ♀: T-8816-8817 New Hebrides, Aneityum, Red Crest 1200 ft, 3 mi NE of Anelgauhat, Jun 1955.  
Remarks: T-8817 (♀) gen. prep. PT-1353; T-8816-8817 dry mounted specimens.
- angela, Westriplectes** (Leptoceridae)  
Neboiss, 1978: 834.  
Paratype ♂: T-5715 Qld Stradbroke Is., 18 Mile Swamp, Site V, 26 Jan 1975, A. Bensink.  
Remarks: T-5715 gen. prep. PT-509.
- antennifera, Maydenoptila** (Hydroptilidae)  
Wells, 1983: 630.



Holotype ♂: T-9255 NSW. Wiangaree State Forest, via Kyogle, 18 Nov 1974, S.R. Monteith.  
 Paratype ♂: T-9256 Same data as holotype.  
 Remarks: T-9256 (♂) dissected.

**apobamum, Taschorema** (Hydrobiosidae)

Neboiss, 1977: 28.  
 Holotype ♂: T-4901 Tas. St Patrick's River, Targa, 22 Feb 1971, A. Neboiss.  
 Allotype ♀: T-4902 Same data as holotype.  
 Paratypes ♂/♀: T-4903-4914 Same data as holotype.  
 Remarks: T-4903 (♂) gen. prep. PT-382; T-4909 (♀) gen. prep. PT-383; T-4910 (♀) gen. prep. PT-480.

**aptus, Condocerus** (Leptoceridae)

Neboiss, 1982a: 317.  
 Holotype ♂: T-6652 WA. Harvey River, nr Harvey Falls, 15 km E of Harvey, 21 Nov 1978, A. Neboiss.  
 Allotype ♀: T-6658 Same data as holotype.  
 Paratypes ♂/♀: T-6653-6654; T-6659-6661 Same data as holotype.  
 Paratypes ♂/♀: T-6656; T-6662-6663 WA. Beedelup Falls, 13 Nov 1958, E.F. Riek.  
 Paratype ♂: T-6655 WA. Warren River 7 km S of Pemberton, 26 Nov 1978, A. Neboiss.  
 Paratype ♂: T-6657 WA. 16 mi S of Nannup, 12 Nov 1958, E.F. Riek.  
 Remarks: T-6653 (♂) gen. prep. PT-648; T-6656-6657 and T-6662-6663 dry mounted specimens.

**aquilonia, Calocoides** (Calocidae)

Neboiss, 1984a: 269.  
 Holotype ♂: T-7939 N Qld Lock Davies Creek Road, Lamb Range Mareeba district, 10 Nov 1974, M.S. Moulds.  
 Paratypes ♂/♀: T-7940-7959 Same data as holotype.  
 Remarks: T-7940 (♂) gen. prep. PT-1088; T-7950 (♀) gen. prep. PT-1170.

**armata, Orthotrichia** (Hydroptilidae)

Wells, 1979c: 594.  
 Holotype ♂: T-5819 Vic. Snobs Creek, 24 Jan 1956, A. Neboiss.  
 Paratypes ♂: T-5820-5823 Same data as holotype.

**artuvillosus, Stenoxyethira** (Hydroptilidae)

Wells, 1981: 114.  
 Paratypes ♂/♀: T-6502-6507 WA. Mitchell Plateau Camp Creek at Crusher Site, 18 Feb 1979, J.E. Bishop.  
 Species Remarks: Now placed in *Oxyethira* (*Dampfitrichia*).

**ascita, Caloca** (Calocidae)

Neboiss, 1977: 91.  
 Holotype ♂: T-5207 Tas. Lake St Clair, 14 Feb 1956, E.T. Smith.  
 Remarks: T-5207 (♂) gen. prep. PT-160.

**atraseta, Orthotrichia** (Hydroptilidae)

Wells, 1979c: 594.  
 Holotype ♂: T-5818 Vic. Millgrove, Yarra River, 24 Feb 1976, A. Neboiss.  
 Allotype ♀: T-5884 Vic. Mitta Mitta River, 15 km NNW of Benambra, 15 Feb 1978, Dartmouth Survey.  
 Paratypes ♂/♀: T-5881 5883; T-5885-5888 Same data as allotype.  
 Paratype ♂: T-5889 Vic. Koornalla, Traralgon Creek, 26 Feb 1974, LaTrobe Survey.

**atsou, Leptocerus** (Leptoceridae)

Schmid, 1987: 126.  
 Holotype ♂: T-8106 N Qld Upper Ross River below weir, SW of Townsville, 8 May 1979, A. Wells.  
 Allotype ♀: T-8107 Same data as holotype.

**attenuata, Orthotrichia** (Hydroptilidae)

Wells, 1983: 643.  
 Holotype ♂: T-9492 NSW. Darling R., Burtundy Station, 120 km N Mildura, 31 Mar 1981, G. Bennison.  
 Allotype ♀: T-9493 NSW. Same data as holotype.  
 Paratypes ♂/♀: T-9494-9525 Same data as holotype.  
 Remarks: T-9494 (♀) dissected

**attunga, Psyllobetina** (Hydrobiosidae)

Neboiss, 1962: 575.  
 Paratypes ♂/♀: T-5630-5632 Vic. Rocky Valley, Bogong High Plains, 5400 ft, 12 Feb 1956, N. Dobrotworsky.  
 Paratype ♂: T-5633 Vic. Falls Creek, Ski Village, 26 Mar 1957, A. Neboiss.  
 Paratypes ♂/♀: T-5634-5640 Vic. Mt Buffalo, 4500 ft, 1 Feb 1957, A. Neboiss.

**aureoniger, Stenopsychodes** (Stenopsychidae)

Schmid, 1969: 208.  
 Holotype ♂: T-3829 Vic. Noorinbee, 20 Nov 1965, A. Neboiss.  
 Allotype ♀: T-3830 Same data as holotype.  
 Paratypes ♂: T-3831 3836 Same data as holotype.  
 Paratypes ♂/♀: T-3837 3842 Vic. Licola, 15 Nov 1965, A. Neboiss.  
 Remarks: T-3829 (♂) abdomen mounted and attached to pin; T-3842 (♀) abdomen mounted and attached to pin; T-3829-3842 dry mounted specimens.

**austera, Taskiria** (Kokiriidae)

Neboiss, 1977: 81.  
 Holotype ♂: T-5139 Tas.(SW) Junction Creek, Arthur Plains, 6 Feb 1965, A. Neboiss.  
 Allotype ♀: T-5140 Same data as holotype.  
 Paratypes ♂/♀: T-5141-5160 Same data as holotype.  
 Paratypes ♂: T-5161-5162 Tas.(SW) Wedge River, 17 Feb 1971, A. Neboiss.  
 Paratype ♂: T-5163 Tas.(SW) Condominium Creek, 15 Feb 1971, A. Neboiss.  
 Remarks: T-5152 (♂) gen. prep. PT-139; T-5156 (♀) gen. prep. PT-143; T-5139 5158 dry mounted specimens.

**australiensis, Gnathotrichia** (Hydroptilidae)

Wells, 1981: 112.  
 Paratype ♂: T-6510 N Qld Crystal Creek nr turnoff to Mt Spec, 2 May 1979, A. Wells.  
 Species Remarks: Now synonym of *Oxyethira* (*Dampfitrichia*) *incana* Ulmer.

**basilobata, Hellyethira** (Hydroptilidae)

Wells, 1979b: 316.  
 Holotype ♂: T-6018 Vic. Yarra River, below Upper Yarra Dam, 28 Feb 1976, A. Neboiss.  
 Paratype ♂: T-6019 Same data as holotype.  
 Paratypes ♂: T-6020-6021 Vic. 12 km SE Merrjig, Howqua River, 30 Nov 1971, A. Neboiss.

**batyle, Ecnomina** (Ecnomidae)

Neboiss, 1977: 59.  
 Holotype ♂: T-4861 Tas. Wilmot River, 10 km S Forth, 13 Dec 1974 A. Neboiss.  
 Allotype ♀: T-4862 Same data as holotype.  
 Paratypes ♂/♀: T-4863-4886 Same data as holotype.  
 Remarks: T-4863 (♂) gen. prep. PT-475; T-4875 (♀) gen. prep. PT-476.

**baynesi, Maydenoptila** (Hydroptilidae)

Wells, 1983: 630.  
 Holotype ♂: T-9257 WA. Marrinup Brook on Pinjarra-Dwellingup Road at railway crossing, 9 Sep 1980, A. Wells.  
 Allotype ♀: T-9258 Same data as holotype.  
 Paratypes ♂/♀: T-9259-9275 Same data as holotype.

**bbellicosa, Orthotrichia** (Hydroptilidae)

Wells, 1979c: 618.  
 Paratypes ♂: T-5853-5854 WA. Mitchell Plateau, trib. of Camp Creek, 19 Jul 1978, P. Suter and M.J. Tyler.

**benambrica, Orphninostrichia** (Hydroptilidae)

Wells, 1983: 646.  
 Holotype ♂: T-9315 Vic. Benambra Creek, 25 km NE Benambra at granite falls, 17 Jan 1982, A. Wells.  
 Allotype ♀: T-9316 Same data as holotype.  
 Paratypes ♂/♀: T-9317-9346 Same data as holotype.

**bifaria, Notalina** (Leptoceridae)

Neboiss, 1977: 138.

Holotype ♂: T-5439 Tas.(SW) Wedge River, 17 Feb 1971, A. Neboiss.

Paratypes ♂: T-5440-5444 Same data as holotype.

Paratypes ♂: T-5445-5446 Tas. Huon River Crossing, 16 Feb 1971, A. Neboiss.

Paratypes ♂: T-5447-5449 Tas. Waldheim, Cradle Mtn Nat. Pk, 7 Feb 1971, A. Neboiss.

Remarks: T-5445 (♂) gen. prep. PT-323; T-5447 (♂) gen. prep. PT-325.

**bifurca, Tricholeiochiton** (Hydroptilidae)

Wells, 1982: 256.

Holotype ♂: T-9395 WA. Mitchell Plateau, Camp Creek, light trap, 31 Jan 1978, J.E. Bishop.

Allotype ♀: T-9396 Same data as holotype.

Paratypes ♂/♀: T-9397; T-9401 Same data as holotype.

Paratypes ♂/♀: T-9398; T-9406-9408 WA. Mitchell Plateau, Lone Dingo Creek, tributary of Mitchell River, 17 Feb 1979, J.E. Bishop.

Paratypes ♂/♀: T-9399 9405 WA. Mitchell Plateau, 30 Jan 1978, J.E. Bishop.

Remarks: T-9397 (♂) dissected; T-9401 (♀) dissected.

**bilamina, Acanthotrichia** (Hydroptilidae)

Wells, 1982: 269.

Holotype ♂: T-9179 Vic. Genoa River, near Wangarabell, 18 Mar 1977, A. Neboiss.

Paratype ♂: T-9181 Same data as holotype.

Paratypes ♂: T-9180-9188 (Except T-9181) Qld Yabba Creek, 10 km W of Imbil, 26 Oct 1980, A. Neboiss.

Remarks: T-9180 (♂) dissected; T-9181 (♂) dissected.

**bilobus, Triplectides** (Leptoceridae)

Neboiss, 1977: 130.

Holotype ♂: T-5406 Tas. Franklin River, 20 km SW of Derwent Bridge, 11 Feb 1971, A. Neboiss.

Allotype ♀: T-5407 Same data as holotype.

Paratypes ♂/♀: T-5408-5416 Same data as holotype.

Remarks: T-5408 (♂) gen. prep. PT-309; T-5414 (♀) gen. prep. PT-860.

**bishopi, Orthotrichia** (Hydroptilidae)

Wells, 1979: 596.

Paratypes ♂/♀: T-5890-5896 SA. Delamere, The Deep Creek, 1 Sep 1976, A. Wells.

**boorarus, Kosrheithrus** (Philorheithridae)

Neboiss, 1982a: 303.

Holotype ♂: T-6123 WA.(SW) Canterbury Brook, 16 km E of Northcliffe, 29 Dec 1979, J. Blyth.

Remarks: T-6123 (♂) gen. prep. PT-706.

**bracteatus, Setodes** (Leptoceridae)

Neboiss, 1982b: 105.

Holotype ♂: T-7479 N Qld Gordon Creek, Iron Range, Cape York Peninsula, 18 Apr-18 Jun 1975, M.S. and B.J. Moulds.

Paratypes ♂/♀: T-8631 8663 N Qld Gordon Creek, Iron Range, Cape York Peninsula, 12 May 1975, M.S. Moulds.

Paratype ♂: T-8664 Qld Upper Daintree, 11 Jun 1971, E.F. Riek. Paratype ♀: T-8665 N Qld Iron Range, Cape York, 2-9 Jun 1971, E.F. Riek.

Remarks: T-8631 (♂) gen. prep. PT-1153; T-8651 (♀) gen. prep. PT-1154; T-8664 (♂) gen. prep. PT-1139; T-8665 (♀) gen. prep. PT-1156.

**brevis, Oxyethira** (Hydroptilidae)

Wells, 1981: 110.

Holotype ♂: T-6569 WA. Cape Leeuwin Nat. Pk, 25 Nov 1978, A. Neboiss.

Allotype ♀: T-6570 Same data as holotype.

Paratypes ♂/♀: T-6571 6579 Same data as holotype.

Remarks: T-6571 (♂) dissected.

**broatensis, Conoesucus** (Conoesucidae)

Neboiss, 1977: 112.

Holotype ♂: T-5317 Tas. 5 km W of Bronte, 8 Nov 1972, A. Neboiss.

Allotype ♀: T-5318 Same data as holotype.

Paratypes ♂, ♀: T-5319 5339 Same data as holotype.

Remarks: T-5329 (♂) gen. prep. PT-491.

**bullata, Orthotrichia** (Hydroptilidae)

Wells, 1979c: 602.

Paratype ♂: T-5901 Qld Whitfield Range, Upper Freshwater Creek, 24 Aug 1974, M.S. Moulds.

**burtoni, Oecetis** (Leptoceridae)

Neboiss, 1978: 841.

Holotype ♂: T-5749 Qld Lake Wabby, Fraser Is, 10-18 Dec 1975, H. Burton.

Allotype ♀: T-5750 Same data as holotype.

Paratypes ♂/♀: T-5751-5763 Same data as holotype.

Remarks: T-5751 (♂) gen. prep. PT-543; T-5763 (♂) gen. prep. PT-544.

**calcara, Hydroptila** (Hydroptilidae)

Wells, 1979a: 753.

Holotype ♂: T-6003 NSW. MacLaughlin River nr Ando, 20 Nov 1965, A. Neboiss.

Allotype ♀: T-6004 Same data as holotype.

Paratypes ♂/♀: T-5961-5980 Same data as holotype.

Remarks: T-6003 (♂) Mounted on microscope slide; T-6004 (♀) Mounted on microscope slide.

**canarus, Archaeophylax** (Limnephilidae)

Neboiss, 1962: 250.

Holotype ♂: T-810 Vic. Victorian Alps (Mt Buller area).

Remarks: T-810 (♂) gen. prep. PT-25 on microscope slide. T-810 dry mounted specimen.

**capillata, Orthotrichia** (Hydroptilidae)

Wells, 1979c: 620.

Paratypes ♂: T-5855 5856 Qld Brisbane River nr Kholo, 9 Mar 1973, M.H. Colbo.

**carteri, Mulgravia** (Hydroptilidae)

Wells, 1983: 647.

Holotype ♂: T-9276 NSW. Clarence R., at Yates Crossing, 26 Oct 1981, A. Wells and D. Carter.

Allotype ♀: T-9277 Same data as holotype.

Paratypes ♂/♀: T-9278-9314 Same data as holotype.

**caudata, Electrocnemis** (Polycentropodidae)

Neboiss, 1977: 63.

Holotype ♂: T-4976 Tas.(SW) Arthur Plains, 3 Feb 1965, A. Neboiss.

Paratype ♂: T-4977 Same data as holotype.

Paratypes ♂: T-4978-4979 Tas.(SW) Arthur Plains, 6 Feb 1965, A. Neboiss.

Remarks: T-4977 (♂) gen. prep. PT-165.

**cerula, Hydrobiosella** (Philopotamidae)

Neboiss, 1977: 48.

Holotype ♂: T-4478 Tas.(SW) Lake Pedder, 10 Mar 1972, A. Neboiss.

Remarks: T-4478 (♂) gen. prep. PT-184.

**charadra, Moruya** (Hydrobiosidae)

Neboiss, 1962: 570.

Paratypes ♂/♀: T-5600-5601 Tas. Broad River nr Lake Dobson, Mt Field Nat. Pk, 6 Nov 1955, T.E. Woodward.

**chorisis, Ecnomina** (Ecnomidae)

Neboiss, 1978: 828.

Holotype ♂: T-5698 Qld Little Minker Lake, Fraser Is., 18 Dec 1975, H. Burton.

Remarks: T-5698 (♂) gen. prep. PT-548.

**ciliata, Tasiagma** (Tasimiidae)

Neboiss, 1977: 86.

Holotype ♂: T-5172 Tas. Andover, York Rivulet, 4 Dec 1974, A. Neboiss.

Allotype ♀: T-5173 Same data as holotype.

Paratypes ♂/♀: T-5174-5203 Same data as holotype.

Paratype ♂: T-5204 Tas. Port Arthur, 15 Feb 1974, A. Neboiss.

Remarks: T-5181 (♂) gen. prep. PT-1331; T-5203 (♀) figured specimen; T-5204 (♂) gen. prep. PT-207.

**ciuskus, seductus Triplectides** (Leptoceridae)

Morse and Neboiss, 1982: 68.



Holotype ♂: T-7541 WA. Mitchell Plateau, Camp Creek, 13 Jul 1978, P. Suter.

Paratype ♂: T-7542 WA. Mitchell Plateau, Camp Creek, 14 Feb 1979, J.E. Bishop.

Paratypes ♂/♀: T-7543-7544 WA. Mitchell Plateau, Camp Creek, 21 Jul 1978, P. Suter.

Remarks: T-7542 (♂) gen. prep. PT-857; T-7543 (♂) gen. prep. PT-858.

**clivicola, Koetonga** (Hydrobiosidae)

Neboiss, 1962: 567.

Paratype ♂: T-5516 Vic. Cumberland Falls, 16 Feb 1958, A. Neboiss.

Paratype ♂: T-5517 NSW. Wraggs Creek, Mt Kosciusko, 11 Apr 1961, A. Neboiss.

Paratype ♀: T-5518 NSW. Sawpit Creek, 11 Apr 1961, A. Neboiss.

Paratype ♂: T-6119 NSW. Kangaroo Valley, 22 Mar 1961, E.F. Riek.

Remarks: T-6119 (♂) dry mounted specimen.

**cohibilis, Ecnomina** (Ecnomidae)

Neboiss, 1982a: 290.

Holotype ♂: T-6408 WA. Jandakot, Lake Banganup, nr Watt-leup, 20 km S of Perth, 8 Nov 1971, J.C. Taylor.

Paratypes ♂/♀: T-6409-6439 Same data as holotype.

Remarks: T-6409 (♂) gen. prep. PT-632.

**columba, Trichoglene** (Hydroptilidae)

Neboiss, 1977: 43.

Holotype ♂: T-5042 Tas. Dove River, Cradle Mt Nat. Pk, 14 Dec 1974, A. Neboiss.

Allotype ♀: T-5043 Same data as holotype.

Paratypes ♂/♀: T-5044-5066 Same data as holotype.

Species Remarks: Now in *Oxyethira* (*Trichoglene*).

**commista, Maydenoptila** (Hydroptilidae)

Wells, 1980: 641.

Holotype ♂: T-6594 Vic. Dee River, 2 km NW of Millgrove, 24 Feb 1976, A. Neboiss.

Paratype ♂: T-6595 Same data as holotype.

**concubium, Austrochorema** (Hydrobiosidae)

Neboiss, 1962: 535.

Paratype ♂: T-5512 Vic. Timbertop nr Merrijig, 5 Jun 1958, I.F. Edwards.

**conferta, Orthotrichia** (Hydroptilidae)

Wells, 1983: 634.

Holotype ♂: T-9526 Vic. Wellington R, 17 km N of Licola, 14 Feb 1977, A.A. Calder.

Allotype ♀: T-9527 Same data as holotype.

**corinna, Hydrobiosella** (Philopotamidae)

Neboiss, 1977: 47.

Holotype ♂: T-4480 Tas.(NW) Corinna, 5 Nov 1972, A. Neboiss.

Allotype ♀: T-4481 Same data as holotype.

Paratypes ♂/♀: T-4482-4483 Same data as holotype.

Paratypes ♂/♀: T-4484-4486 Tas.(NW) King River, 5 Nov 1961, N. Dobrotworsky.

Remarks: T-4480 (♂) gen. prep. PT-185; T-4481 (♀) gen. prep. PT-186; T-4484 (♂) gen. prep. PT-187; T-4485 (♀) gen. prep. PT-188.

**corvinus, Anisocentropus** (Calamoceratidae)

Neboiss, 1980b: 203.

Paratypes ♂/♀: T-5794-5799; T-5816 WA. Carson's Escarpment, 9-15 Aug 1975, Drysdale Survey Site B-1 I.F.B. Common and M.S. Upton.

Paratypes ♂/♀: T-5800-5802 WA. Drysdale River, 18-21 Aug 1975, Site C5.

Paratype ♂: T-9629 WA. Prince Regent reserve, Kings Cascade, (Site W2), 28 Aug 1974, W.J. Bailey and K.T. Richards.

Paratype ♀: T-9630 WA. Prince Regent reserve, Enid Falls, (Site E5), at light, 18 Aug 1974, W.J. Bailey and K.T. Richards.

Remarks: T-5794 (♂) gen. prep. PT-591; T-5796 (♀) gen. prep. PT-613; T-5816, T-9629, T-9630 dry mounted specimens.

**creektona, Smicrophylax** (Hydropsychidae)

Neboiss, 1977: 68.

Holotype ♂: T-5114 Tas. Creekton River nr Dover, 14 Nov 1972, A. Neboiss.

Allotype ♀: T-5115 Tas. Huon-Picton River junction, 15 Nov 1972, A. Neboiss.

Paratypes ♂: T-5116-5130 Same data as holotype.

Paratypes ♂/♀: T-5131-5133 Same data as allotype.

Remarks: T-5166 (♂) gen. prep. PT-164; T-5129 (♂) gen. prep. PT-485.

**crinitum, Austrochorema** (Hydrobiosidae)

Neboiss, 1977: 16.

Holotype ♂: T-4805 Tas. Guide River Falls, nr Ridgley, 18 Nov 1972, A. Neboiss.

Allotype ♀: T-4806 Same data as holotype.

Paratypes ♂/♀: T-4807-4809 Tas. Dip River Falls, 10 km S of Mawbanna, 1 Dec 1974, A. Neboiss.

Remarks: T-4805 (♂) gen. prep. PT-363; T-4806 (♀) gen. prep. PT-456.

**cumberlandica, Psyllobetina** (Hydrobiosidae)

Neboiss, 1962: 573.

Paratypes ♂: T-5603-5606 Vic. Cumberland Falls, 9 Feb 1955, A. Neboiss.

Paratypes ♀: T-5607-5611 Vic. Cumberland Falls, 16 Feb 1958, A. Neboiss.

**cuneola, Maydenoptila** (Hydroptilidae)

Neboiss, 1977: 44.

Holotype ♂: T-5067 Tas.(SW) Wedge River, 17 Feb 1971, A. Neboiss.

Allotype ♀: T-5068 Same data as holotype.

Paratypes ♂/♀: T-5069-5080 Same data as holotype.

Remarks: T-5076 (♂) gen. prep. PT-227; T-5080 (♀) gen. prep. PT-508.

**cygnitus, Ecnomus** (Ecnomidae)

Neboiss, 1982a: 288.

Holotype ♂: T-6670 Vic. Swan Lake, 30 km NW of Portland, 27 Feb 1976, P. A. Meyer.

Paratypes ♂: T-6671-6679 Same data as holotype.

Remarks: T-6671 (♂) gen. prep. PT-686.

**cymula, Oecetis** (Leptoceridae)

Neboiss, 1982a: 323.

Holotype ♂: T-6611 WA. Margaret River, Rapids Crossing, 25 km S of Busselton, 22 Nov 1978, A. Neboiss.

Allotype ♀: T-6624 Same data as holotype.

Paratypes ♂/♀: T-6612-6623; T-6625-6635 Same data as holotype.

Paratypes ♂/♀: T-6762-6763 WA. 15 mi NW of Walpole, 15 Nov 1958, E.F. Riek.

Remarks: T-6612 (♂) gen. prep. PT-655; T-6762 and T-6763 dry mounted specimens.

**dasodes, Pliocaloca** (Calocidae)

Neboiss, 1984a: 272.

Paratype ♂: T-7963 N Qld Bellenden Ker Range, Base Stn 100 m., 17-24 Oct 1981, Earthwatch expedition.

Remarks: T-7963 (♂) gen. prep. PT-1161.

**decoratus, Aphilorheithrus** (Philorheithridae)

Neboiss, 1977: 122.

Holotype ♂: T-5361 Tas.(NW) Corinna, 5 Nov 1972, A. Neboiss.

Allotype ♀: T-5362 Same data as holotype.

Paratypes ♂/♀: T-5363-5364 Same data as holotype.

Paratypes ♂: T-5365-5366 Tas.(SW) Lake Pedder, 1 Feb 1965 A. Neboiss.

Paratypes ♂: T-5367-5368 Tas.(SW) Condominium Creek, 15 Feb 1971, A. Neboiss.

Paratype ♀: T-5369 Tas.(NW) Farm Creek, 4 km N of Tullah, 6 Nov 1972, A. Neboiss.

Paratype ♂: T-5370 Tas.(SW) Damper Inn, Port Davey Track, Mt Muller area, 12 Feb 1965, A. Neboiss.

Paratype ♂: T-5371 Tas. Pencil Pine River, 6 km N of Cradle Mt Nat. Pk, 13 Dec 1974, A. Neboiss.

Paratypes ♂: T-5372-5373 Tas. Waldheim, Cradle Mt Nat. Pk,



7 Feb 1971, A. Neboiss.

Paratype ♂: T-8907 Tas. 10 mi E of Strahan, 6 Feb 1967, E.F. Riek.

Remarks: T-5363 (♂) gen. prep. PT-351; T-5364 (♀) abdomen figured; T-5365 (♂) gen. prep. PT-151; T-5366 (♂) gen. prep. PT-352 dry mounted specimen; T-5370 (♂) gen. prep.

**diacanthus, Agapetus** (Glossosomatidae)

Neboiss, 1986: 214.

Holotype ♂: T-8161 Vic. O'Shannassy River, 20 Jan 1983 A. Neboiss.

Paratypes ♂: T-8162 8177 Same data as holotype.

Remarks: T-8162 (♂) gen. prep. PT-1246.

Species Remarks: Now *Agapetus vicanthicus* Neboiss 1988.

**dilgri, Orthotrichia** (Hydroptilidae)

Wells, 1983: 640.

Holotype ♂: T-9528 NSW. Dilgry R., 19 km NW Rawdon Vale, 18 Feb 1980, A. Calder.

Allotype ♀: T 9529 Same data as holotype.

Paratypes ♀: T-9530 9535 Same data as holotype.

Remarks: T 9530 (♀) dissected.

**disjuncta, Hyalopsyche** (Polycentropodidae)

Neboiss, 1980a: 359.

Holotype ♂: T 6111 N Qld 10 km SW of Gordonvale, Mulgrave River, 29 Apr 1979, A. Wells.

Paratype ♂: T-6112 N Qld Coen, 27 Jun 1970, J.C. LeSouef.

Remarks: T-6111 (♂) gen. prep. PT-680.

**divaricata, Orthotrichia** (Hydroptilidae)

Wells, 1983: 639.

Holotype ♂: T-9536 Qld Upper Freshwater Creek, 24 Aug 1974, M.S. Moulds.

**diversa, Notoperata** (Leptoceridae)

Neboiss, 1982a: 309.

Paratypes ♂/♀: T-6465 6466 WA. Margaret River, 10 Nov 1958, E.F. Riek.

Remarks: T-6465 (♂) gen. prep. PT-727; T-6465-6466 dry mounted specimens.

**dolabratus, Triplectides** (Leptoceridae)

Morse and Neboiss, 1982: 77.

Holotype ♂: T-7505 N Qld Kirrama State Forest, 24 km WNW of Kennedy, 28 Jan 1981, M.S. and B.J. Moulds.

Paratype ♂: T-7506 N Qld 1 km N of Tully Falls, 8 Jan 1976, A. Walford Huggins.

Paratype ♂: T-7507 N Qld 25 km along Mt Lewis Road, SW of Mossman, 16 Jan 1977, M.S. and B.J. Moulds.

Paratype ♂: T-7569 N Qld Bellenden Ker Range, Cableway Base Stn, 100m, 17 24 Oct 1981, Earthwatch expedition.

Remarks: T-7506 (♂) gen. prep. PT-843.

**drepana, Tasimia** (Tasimiidae)

Neboiss, 1977: 86.

Holotype ♂: T-5170 Tas. Huon River, 2 km W of Huon-Picton River junction, 11 Feb 1966, A. Neboiss.

Paratype ♂: T-5171 Same data as holotype.

Remarks: T-5170 (♂) gen. prep. PT-442; T-5171 (♂) gen. prep. PT-155 (lost after drawing).

**dwellinga, Notalina** (Leptoceridae)

Neboiss, 1982a: 315.

Holotype ♂: T-6580 WA. Marrinup Brook, 7 km W of Dwellingup, 9 Aug 1980, A. Wells.

Paratypes ♂/♀: T-6581 6593 Same data as holotype.

Remarks: T-6581 (♂) gen. prep. PT 735.

**ebenina, Costora** (Conoesucidae)

Neboiss, 1977: 104.

Holotype ♂: T-5256 Tas. Bull Creek, Cradle Mt Road, 13 Dec 1974, A. Neboiss.

Allotype ♀: T-5257 Same data as holotype.

Paratypes ♂: T 5258-5261 Same data as holotype.

Paratypes ♂: T-5262 5263 Tas. Sassafras Creek, 4 km W of Mole Creek, 17 Nov 1972, A. Neboiss.

Paratypes ♂/♀: T-5264-5279 Tas. Iris River trib., 15 km N of Cradle Mt, 13 Dec 1974, A. Neboiss.

Remarks: T-5262 (♂) gen. prep. PT-391.

**edmondsi, Tricholeiochiton** (Hydroptilidae)

Wells, 1982: 259.

Holotype ♂: T 9371 WA. Stonewall Creek, at light, 2 Feb 1978, J.E. Bishop.

Allotype ♀: T-9372 Same data as holotype.

Paratype ♀: T-9373 Same data as holotype.

Paratypes ♀: T-9374 9375 WA. Stonewall Creek, at light, 4 Feb 1978, J.E. Bishop.

Paratypes ♀: T-9376-9378 WA. Fine Springs Creek, 2 Feb 1978, J.E. Bishop.

Remarks: T-9373 (♀) dissected.

**enthesi, Triplectides** (Leptoceridae)

Neboiss, 1982a: 305.

Paratype ♀: T-6764 WA. Beedelup Falls, 13 Nov 1958, E.F. Riek.

Remarks: T-6764 (♀) gen. prep. PT-878 dry mounted specimen.

**eremica, Tasiagma** (Tasimiidae)

Neboiss, 1986: 219.

Holotype ♂: T-8220 Lord Howe Island. Erskine Valley Station, 10 Nov 1983, G.W. Gibbs.

Paratype ♂: T-8221 Same data as holotype.

Remarks: T-8221 (♂) gen. prep. PT-1330; Both specimens donated by I. Henderson.

**eungellus, Anisocentropus** (Calamoceratidae)

Neboiss, 1980b: 209.

Paratype ♂: T-5793 Qld Broken River, Eungella Nat. Pk, 27 May 1971, E.F. Riek.

Remarks: T 5793 (♂) gen. prep. PT-603 dry mounted specimen.

**exigua, Orthotrichia** (Hydroptilidae)

Wells, 1979c: 616.

Paratypes ♂: T-5906 5911 WA. Mitchell Plateau, Camp Creek, 20 Jul 1978, P. Suter and M.J. Tyler.

**eximia, Plectrocnemia** (Polycentropodidae)

Neboiss, 1982a: 297.

Holotype ♂: T-6253 WA. Harvey River nr Harvey Falls, 15 km E of Harvey, 21 Nov 1978, A. Neboiss.

Paratype ♀: T-6254 Same data as holotype.

Remarks: T-6253 (♂) gen. prep. PT 639.

**explicata, Maydenoptila** (Hydroptilidae)

Wells, 1980: 639.

Holotype ♂: T-6682 Tas. Gordon River, 1 km above First Split, 11 Jan 1977, D. Coleman, A. Neboiss, P. Allbrook and R. Swain.

Paratype ♂: T-6683 Tas. Russell Falls Nat. Pk, 23 Feb 1967, A. Neboiss.

Paratypes ♂: T-6684 6686 Tas. Gordon River, 0.5 km above Sprent River junction, 13 Jan 1977, A. Neboiss.

Paratypes ♂: T 6687-6693 Same data as holotype.

**exserta, Helyethira** (Hydroptilidae)

Wells, 1979b: 319.

Holotype ♂: T-6007 NSW. Boonoo Boonoo Falls, 5 km upstream, 11 Oct 1973, A. Neboiss.

Allotype ♀: T-6008 Same data as holotype.

Paratypes ♂/♀: T 6009-6010 Same data as holotype.

Paratypes ♂/♀: T-6011 6017 Vic. Yea River, 17 Nov 1976, A. Wells and A. Neboiss.

Remarks: T-6007 (♂) Specimen mounted on microscope slide; T-6008 (♀) Specimen mounted on microscope slide.

**fastigiata, Pliocallaca** (Calocidae)

Neboiss, 1984a: 269.

Paratype ♂: T-7960 N Qld Bellenden Ker Range, Summit TV Stn, 1560m, 1-7 Nov 1981, Earthwatch expedition.

Remarks: T-7960 (♂) gen. prep. PT-1169.

**ferulum, Taschorema** (Hydrobiosidae)

Neboiss, 1977: 29.

Holotype ♂: T-4915 Tas. South Esk River, Evandale, 1 Mar 1967, A. Neboiss.

Allotype ♀: T-4916 Same data as holotype.

Paratypes ♂/♀: T-4917-4926 Same data as holotype.

Paratypes ♂: T-4927 4928 Tas. Derwent River, 2 km NW Derwent Bridge, 12 Feb 1971, A. Neboiss.

Paratype ♂: T-4929 Tas.(SW) Wedge River, 17 Feb 1971, A. Neboiss.

Paratype ♀: T-4930 Tas. North Esk River, Blessington, 1 Mar 1967, A. Neboiss.

Remarks: T-4916 (♀) gen. prep. PT-481; T-4917 (♂) gen. prep. PT-379.

**fidelis, Tricholeiochiton** (Hydroptilidae)

Wells, 1982: 253.

Holotype ♂: T-9379 N Qld Alice River on Hervey Range Road, 9 May 1979, A. Wells and L. Penridge.

Allotype ♀: T-9380 Same data as holotype.

Paratypes ♂/♀: T-9381-9384; T-9387; T-9393-9394 Same data as holotype.

Paratypes ♂/♀: T-9385-9386; T-9388-9392 N Qld Ross River at Apex Park nr Townsville, 26 Apr 1979, A. Wells.

Remarks: T-9381 (♂) dissected; T-9387 (♀) dissected.

**flabella, Orthotrichia** (Hydroptilidae)

Wells, 1983: 637.

Holotype ♂: T-9537 Vic. McKenzie R., Princes Highway bridge, 25 km W Cann River, 27 Jan 1975, A. Neboiss.

**furcilla, Tamasia** (Calocidae)

Neboiss, 1984d: 89.

Holotype ♂: T-9438 Vic. Mt Buller Road, White Bridge, 20 Dec 1972, P. Zwick.

Paratypes ♂: T-9439-9442 Same data as holotype.

Remarks: T-9439 (♂) gen. prep. PT-1190.

**galeata, Caenota** (Calocidae)

Neboiss, 1984a: 273.

Holotype ♂: T-7974 N Qld 25 km along Mt Lewis Road, SW of Mossman, 8 Jan 1977, M.S. Moulds.

Paratypes ♂/♀: T-7975-7978 Same data as holotype.

Paratypes ♂/♀: T-7980-7982 N Qld 25 km along Mt Lewis Road, SW of Mossman, 16 Jan 1977, M.S. Moulds.

Paratypes ♂/♀: T-7983-7988 N Qld Julatten, Mt Lewis Rd, 1100m, 25 Jan 1976, A. Walford-Huggins.

Remarks: T-7979 (♂) gen. prep. PT-1164; T-7980 (♀) gen. prep. PT-1165.

**gilva, Oecetis** (Leptoceridae)

Neboiss, 1977: 145.

Holotype ♂: T-5491 Tas. South Esk River, 1 Mar 1967, A. Neboiss.

Allotype ♀: T-5492 Same data as holotype.

Paratypes ♂/♀: T-5493-5500 Same data as holotype.

Remarks: T-5493 (♂) gen. prep. PT-251; T-5500 (♀) gen. prep. PT-252.

**globosa, Acritoptila** (Hydroptilidae)

Wells, 1982: 265.

Holotype ♂: T-9189 WA. Harvey River, near Harvey Falls, 15 km E of Harvey, 21 Nov 1978, A. Neboiss.

Allotype ♀: T-9191 Same data as holotype.

Paratypes ♂/♀: T-9190; T-9192-9211 Same data as holotype.

Remarks: T-9190 (♂) dissected.

**glymma, Aphilorheithrus** (Philorheithridae)

Neboiss, 1977: 118.

Holotype ♂: T-5340 Tas. St Patricks River, Targa, 22 Feb 1971, A. Neboiss.

Allotype ♀: T-5341 Same data as holotype.

Paratypes ♂/♀: T-5342-5351 Same data as holotype.

Remarks: T-5342 (♂) gen. prep. PT-149; T-5347 (♀) gen. prep. PT-355.

**gonetalus, Triplectides** (Leptoceridae)

Morse and Neboiss, 1982: 75.

Holotype ♂: T-7483 N Qld Zarda Creek nr Mt Misery, W of Mossman, 1200 ft, 23 Dec 1974, M.S. Moulds.

Paratypes ♂/♀: T-7484; T-7522-7525 Same data as holotype.

Paratype ♂: T-7485 N Qld 3 km NE of Mt Tiptree, 20 Oct 1980, J.C. Cardale.

Paratype ♂: T-7486 N Qld The Crater nr Herberton, 18 Dec 1974, M.S. Moulds.

Paratypes ♂/♀: T-7487-7489 N Qld Mt Fisher, 8 km SW of Millaa Millaa, 21 Nov 1979, M.S. and B.J. Moulds.

Paratypes ♂: T-7526-7528 N Qld The Crater nr Herberton, 18 Dec 1974, M.S. Moulds.

Remarks: T-7525 (♀) gen. prep. PT-873; T-7485 (♂) gen. prep. PT-836.

**gungarra, Notalina** (Leptoceridae)

Neboiss, 1984d: 91.

Holotype ♂: T-9490 Vic. Wungungarra and Crooked River junction, 9 Feb 1981, J. Blyth.

Paratype ♂: T-9491 Same data as holotype.

Remarks: T-9491 (♂) gen. prep. PT-737.

**hamatus, Triplectides** (Leptoceridae)

Morse and Neboiss, 1982: 76.

Holotype ♂: T-7509 NSW. Upper Manningham River, 20 km NNW of Rawdon Vale, 19 Feb 1980, A. Calder.

Paratype ♂: T-7545 NSW. Styx River, 12 km S of Ebor, 17 Oct 1973, A. Neboiss.

Remarks: T-7509 (♂) gen. prep. PT-844.

**hamatus, Acritoptila** (Hydroptilidae)

Wells, 1982: 265.

Holotype ♂: T-9212 Qld Mothar Mountain, 12 km SE of Gympie, 29 Oct 1980, A. Neboiss.

Paratype ♂: T-9213 Qld Coondoo Creek, 30 km NE Gympie, Toolara State Forest, 27 Oct 1980, A. Neboiss.

Remarks: T-9213 (♂) dissected.

**helvolus, Triplectides** (Leptoceridae)

Morse and Neboiss, 1982: 64.

Holotype ♂: T-7510 NT. Lambells Lagoon, Humpty Doo, 19 Aug 1979, J. Blyth.

Paratypes ♂/♀: T-7511-7516 Same data as holotype.

Paratype ♂: T-7517 NT. 5 km NNW of Cahills Xing, East Alligator River, 8-9 Jun 1973, J.C. Cardale.

Remarks: T-7517 (♂) gen. prep. PT-842.

**hyboma, Anisocentropus** (Calamoceratidae)

Neboiss, 1986: 220.

Paratype ♂: T-8225 New Guinea Port Moresby, Mt Lawes, 400m, 5 Mar-12 May 1963, W.W. Brandt.

Remarks: T-8225 (♂) gen. prep. PT-1215 dry mounted specimen.

**hystricosa, Diplectrona** (Hydropsychidae)

Neboiss, 1978: 832.

Paratypes ♂/♀: T-5785-5786 Qld Nth Stradbroke Is., Myora Springs, 28 Dec 1977, A. Arthington.

Paratypes ♂/♀: T-5787-5888 Qld Nth Stradbroke Is., Myora Springs, 3 Sep 1974, A. Bensink.

Remarks: T-5787 (♂) gen. prep. PT-512; T-5788 (♀) gen. prep. PT-558.

**ignota, Tascuna** (Oeconesidae)

Neboiss, 1975: 82.

Holotype ♂: T-4793 Tas. Waldheim, Cradle Mt Nat. Pk, 7 Feb 1971, A. Neboiss.

Paratypes ♂: T-4794-4795 Same data as holotype.

Remarks: T-4793 and T-4794 dry mounted specimens; T-4795 (♂) gen. prep. PT-154.

**inornata, Orthotrichia** (Hydroptilidae)

Wells, 1979c: 605.

Paratypes ♂: T-5902-5903 WA. Mitchell Plateau, Camp Creek at Crusher Site, 21 Jul 1978, P. Suter and M.J. Tyler.

**insperatus, Triplectides** (Leptoceridae)

Morse and Neboiss, 1982: 76.

Holotype ♂: T-7500 Qld Cooloola area, open forest, 28 Aug 1979, 'K.L'.

Remarks: T-7500 (♂) gen. prep. PT-840.

**intricata, Triaenodes** (Leptoceridae)

Neboiss, 1977: 142.

Holotype ♂: T-5469 Tas. South Esk River, Evandale, 1 Mar 1967, A. Neboiss.

Allotype ♀: T-5470 Same data as holotype.

Paratypes ♂/♀: T-5471-5485 Same data as holotype.

Paratypes ♂/♀: T-5486-5487 Tas. Grt. Forester River, 5 km NW of Forester, 11 Nov 1972, A. Neboiss.



Paratype ♂: T-5488 Tas. Huon-Picton River junction, 18 Feb 1967, A. Neboiss.

Remarks: T-5471 (♂) gen. prep. PT-199; T-5476 (♀) gen. prep. PT-200.

**jubatus, *Triaenodes* (Leptoceridae)**

Neboiss, 1982a: 317.

Holotype ♂: T-6636 WA. Gingin Brook, nr Moore River junction, 12 km E of Guilderton, 19 Nov 1978, A. Neboiss.

Allotype ♀: T-6642 Same data as holotype.

Paratypes ♂/♀: T-6637 6641; T-6643 6651 Same data as holotype.

Remarks: T-6637 (♂) gen. prep. PT-653; T-6643 (♀) gen. prep. PT-717.

**justini, *Orphninostrichia* (Hydroptilidae)**

Wells, 1983: 645.

Holotype ♂: T-9347 Vic. Stevensons Falls, Upper Gellibrand R., 20 Jan 1982, A. Neboiss and A. Wells.

Allotype ♀: T-9348 Same data as holotype.

Paratypes ♂/♀: T-9349 9369 Same data as holotype.

**kelion, *Ethochorema* (Hydrobiosidae)**

Neboiss, 1977: 26.

Holotype ♂: T-4852 Tas.(SW) Condominium Creek, 15 Feb 1971, A. Neboiss.

Allotype ♀: T-4853 Same data as holotype.

Remarks: T-4852 (♂) gen. prep. PT-376.

**kholonensis, *Orthotrichia* (Hydroptilidae)**

Wells, 1979c: 612.

Holotype ♂: T-5847 Qld Brisbane River nr Kholo, 9 Mar 1973, M.H. Colbo.

Paratype ♂: T-5848 Same data as holotype.

**kirramus, *Anisocentropus* (Calamoceratidae)**

Neboiss, 1980b: 199.

Paratype ♂: T-5813 Qld Kirrama State Forest (Western Fall), 30 May 1971, E.F. Riek.

Paratype ♂: T-5814 Qld Little Crystal Creek, Mt Spec, 29 May 1971, E.F. Riek.

Paratype ♂: T-5815 Qld 9 mi W Kennedy, 2000 ft, 17 Apr 1969, I.F.B. Common and M.S. Upton.

Paratype ♀: T-5912 Qld Ichooratippa Creek, Palmerston Nat. Pk, 5 Sep 1972, O.S. and C.M. Flint.

Remarks: T-5813 (♂) gen. prep. PT-536; T-5814 (♂) gen. prep. PT-601; T-5815 (♂) gen. prep. PT-602; T-5912 (♀) gen. prep. PT-617; T-5814, T-5815, T-5912 dry mounted.

**kocinus, *Ramiheithrus* (Philorheithridae)**

Neboiss, 1974c: 323.

Holotype ♂: T-4567 Tas.(NW) Corinna, 5 Nov 1972, A. Neboiss and G. Kocins.

Paratype ♂: T-4568 Same data as holotype.

Remarks: T-4568 (♂) gen. prep. PT-348.

**krene, *Costora* (Conoesucidae)**

Neboiss, 1977: 105.

Holotype ♂: T-5280 Tas.(SW) Spring River, 5 Feb 1966, A. Neboiss.

Remarks: T-5280 (♂) gen. prep. PT-399.

**krokale, *Ecnomina* (Ecnomidae)**

Neboiss, 1978: 828.

Holotype ♂: T-5697 Qld Fraser Is., Little Minker Lake, 18 Dec 1975, H. Burton.

Remarks: T-5697 (♂) gen. prep. PT-547.

**kurandica, *Maydenoptila* (Hydroptilidae)**

Wells, 1980: 641.

Holotype ♂: T-6668 Qld stream 3 mi E of Kuranda, 7 Aug 1972, O.S. and C.M. Flint.

Remarks: T-6668 (♂) Presented by O.S. Flint. Dry mounted specimen.

**lacuna, *Plectrocnemia* (Polycentropodidae)**

Neboiss, 1977: 62.

Holotype ♂: T-4944 Tas. Lake Leake, 9 Nov 1972, A. Neboiss.

Allotype ♀: T-4945 Same data as holotype.

Paratypes ♂: T-4946-4953 Same data as holotype.

Remarks: T-4946 (♂) gen. prep. PT-410.

**lacustris, *Taskiropsyche* (Kokiriidae)**

Neboiss, 1977: 82.

Holotype ♂: T-5166 Tas.(SW) Lake Pedder, 1 Feb 1965, A. Neboiss.

Paratypes ♂: T-5167-5169 Same data as holotype.

Remarks: T-5167 (♂) gen. prep. PT-137.

**laparus, *Agapetus* (Glossosomatidae)**

Neboiss, 1977: 38.

Holotype ♂: T-5220 Tas.(SW) Condominium Creek, 9 Feb 1965 A. Neboiss.

Paratypes ♂: T-5221-5222 Same data as holotype.

Paratypes ♂: T-5223-5225 Tas.(SW) Condominium Creek, 15 Feb 1971 A. Neboiss.

Remarks: T-5225 (♂) gen. prep. PT-474.

**lavara, *Liapota* (Plectrotarsidae)**

Neboiss, 1959: 95.

Paratypes ♂/♀: T-472-473 Tas. Wilmot, H.J. Carter and A.M. Lea.

Remarks: T-472 (♂) part of anterior wing on slide T-23; T-473 (♀) abdomen on slide T-22. Both specimens dry mounted, received in exchange from SAM.

**legula, *Ecnomina* (Ecnomidae)**

Neboiss, 1977: 58.

Holotype ♂: T-4887 Tas. Huon River Crossing, Port Davey Track, 9 Feb 1965, A. Neboiss.

Allotype ♀: T-4888 Same data as holotype.

Paratypes ♂/♀: T-4889 4895 Same data as holotype.

Paratype ♂: T-489-4897 Tas. Huon River Crossing, 16 Feb 1971, A. Neboiss.

Paratypes ♂/♀: T-4898-4899 Tas.(SW) Arthur Plains, 3 Feb 1965, A. Neboiss.

Remarks: T-4898 (♂) gen. prep. PT-266; T-4899 (♀) gen. prep. PT-267; T-4896 (♂) gen. prep. PT-344.

**lentum, *Ulmerochorema* (Hydrobiosidae)**

Neboiss, 1962: 539.

Paratypes ♂/♀: T-6120-6121 Vic. Clunes, 9 Jul 1954, A. Neboiss.

Remarks: T-6120 (♂) gen. prep. PT-16; T-6121 (♀) gen. prep. PT-5. Both preparations on microscope slide. Both specimens dry mounted.

**licmetica, *Symphitoneuria* (Leptoceridae)**

Neboiss, 1986: 222.

Holotype ♂: T-8222 New Caledonia. Mandjelia above Pouebo, 600-750 m, 11-13 May 1984, G. Monteith and D. Cook.

Paratype ♂: T-8223 Same data as holotype.

Paratype ♀: T-8224 New Caledonia. Aoupinie, 20 km NE of Poya, 650m, 18-19 May 1984, G. Monteith and D. Cook.

Remarks: T-8223 (♂) gen. prep. PT-1332; T-8224 (♀) gen. prep. PT-1333.

**lineata, *Stenopsychodes* (Stenopsychidae)**

Neboiss, 1977: 53.

Holotype ♂: T-4801 Tas.(NW) Bluff Hill Creek, 12 km S of Marawah, 30 Nov 1974, A. Neboiss.

Allotype ♀: T-4802 Same data as holotype.

Paratypes ♂/♀: T-4803-4804 Same data as holotype.

Remarks: T-4803 (♂) gen. prep. PT-477; T-4804 (♀) gen. prep. PT-478.

**liratellus, *Triplectides* (Leptoceridae)**

Morse and Neboiss, 1982: 72.

Paratype ♂: T-7495 N. Qld Boulders W of Babinda, 29 Jun 1971, E.F. Riek.

Remarks: T-7495 (♂) gen. prep. PT-839.

**liratus, *Triplectides* (Leptoceridae)**

Morse and Neboiss, 1982: 71.

Holotype ♂: T-7497 N Qld Windsor Tableland, NW of Mossman, 27 Dec 1976, M.S. and B.J. Moulds.

Paratype ♂: T-7490 N Qld Moses Creek, 4 km NE of Mt Finnigan, 14-16 Oct 1980, J.C. Cardale.

Paratypes ♀: T-7498-7499 Same data as holotype.



Paratype ♂: T-7518 N Qld Lock-Davies Creek Road, Lamb Range Mareeba distr., 10 Nov 1974, M.S. Moulds.  
Paratype ♂: T-7529 N Qld Bellenden Ker Range, Cableway Base Stn, 100m, 17-24 Oct 1981, Earthwatch expedition.  
Remarks: T-7490 (♂) gen. prep. PT-837.

**locula, *Psyllobetina* (Hydrobiosidae)**

Neboiss, 1962: 576.

Paratypes ♂/♀: T-5612-5629 Vic. Bogong Village, 26 Mar 1957, A. Neboiss.

**loripes, *Hellyethira* (Hydroptilidae)**

Wells, 1979b: 322.

Paratype ♂: T-6022 WA. Mitchell Plateau, Camp Creek, 31 Jan 1978, J.E. Bishop.

**luteolus, *Aphilorheithrus* (Philorheithridae)**

Neboiss, 1977: 123.

Holotype ♂: T-5374 Tas.(SW) Cracroft River, 8 Feb 1966, A. Neboiss.

Allotype ♀: T-5375 Same data as holotype.

Paratypes ♂: T-5641 5642 Same data as holotype.

Remarks: T-5641 (♂) gen. prep. PT-487; T-5374-5375 dry mounted specimens.

**luxata, *Costora* (Conoesucidae)**

Neboiss, 1977: 106.

Holotype ♂: T-5282 Tas. Waldheim, Cradle Mt Nat. Pk, 7 Feb 1971, A. Neboiss.

Paratype ♂: T-5283 Same data as holotype.

Remarks: T-5283 (♂) gen. prep. PT-403.

**lyella, *Diplectrona* (Hydropsychidae)**

Neboiss, 1977: 72.

Holotype ♂: T-5134 Tas. King River, 5 Nov 1961, N. Dobrotworsky.

Paratype ♂: T-5135 Tas. Hellyer River Gorge, 2 Dec 1972, P. Zwick.

Remarks: T-5134 (♂) gen. prep. PT-173; T-5135 (♂) gen. prep. PT-1043.

**malleoforma, *Hellyethira* (Hydroptilidae)**

Wells, 1979b: 325.

Paratypes ♂/♀: T-6023-6032 SA. Uraidla, 28 Nov 1975, A. Wells.

**manicata, *Plectrocnemia* (Polycentropodidae)**

Neboiss, 1977: 62.

Holotype ♂: T-4954 Tas. Hellyer River Gorge, 9 Feb 1971, A. Neboiss.

Allotype ♀: T-4955 Same data as holotype.

Paratypes ♂/♀: T-4956-4975 Same data as holotype.

Remarks: T-4956 (♂) gen. prep. PT-274; T-4971 (♀) gen. prep. PT-275.

**margaretae, *Acrioptila* (Hydroptilidae)**

Wells, 1982: 265.

Holotype ♂: T-9214 WA. Harvey River, below Harvey Falls, 15 Nov 1980, M. Brock and A. Wells.

Allotype ♀: T-9215 Same data as holotype.

Paratypes ♂/♀: T-9216-9225 Same data as holotype.

Remarks: T-9216 (♂) dissected; T-9217 (♀) dissected.

**mccubhini, *Taskiria* (Kokiriidae)**

Neboiss, 1977: 81.

Holotype ♂: T-5164 Tas.(SW) Lake Pedder, 1 Feb 1965, A. Neboiss.

Paratype ♂: T-5165 Same data as holotype.

Remarks: T-5165 (♂) gen. prep. PT-138.

**media, *Orphninostrichia* (Hydroptilidae)**

Wells, 1980: 632.

Holotype ♂: T-6729 Vic. Porepunkah, 27 Jan 1957, A. Neboiss.

**membrum, *Ulmerochorema* (Hydrobiosidae)**

Neboiss, 1962: 544.

Paratypes ♂/♀: T-5572-5579; T-5581 5586 Vic. Timbertop nr Merrijig, 5 Jun 1958, I. Edwards.

Paratype ♀: T-5580 Vic. Lilydale distr., 3 Jun 1954, A. Neboiss.

Remarks: T-5580 (♀) gen. prep. PT-1710.

**merga, *Ecnomina* (Ecnomidae)**

Neboiss, 1982a: 297.

Holotype ♂: T-6248 WA. Sues Bridge, Blackwood River, 25 Nov 1978, A. Neboiss.

Paratypes ♂: T-6249 6251 Same data as holotype.

Remarks: T-6249 (♂) gen. prep. PT-627.

**mesembria, *Ecnomina* (Ecnomidae)**

Neboiss, 1982a: 293.

Holotype ♂: T-6243 WA. Beedelup Falls, nr Pemberton, 8 Dec 1979, J. Blyth.

Paratypes ♀: T-6244 6247 WA. Beedelup Falls, nr Pemberton, 8 Dec 1979, J. Blyth.

Remarks: T-6243 (♂) gen. prep. PT-708.

**mienica, *Oxyethira* (Hydroptilidae)**

Wells, 1981: 108.

Paratypes ♂: T-6508 6509 Tas. Ouse River, 5 mi W of Miena, 28 Feb 1967, A. Neboiss.

**monteithi, *Caenota* (Calocidae)**

Neboiss, 1984a: 276.

Paratypes ♂: T-8012-8021 N. Qld Bellenden Ker Range, Summit TV Stn., 1560m 1 7 Nov 1981, Earthwatch expedition.

Paratypes ♂: T-8022 8023 Qld Tinaroo Creek Road, 21 Feb 1982, M.S. Moulds.

Paratypes ♂/♀: T-8024-8030 N Qld Mt Bartle Frere, 0.5 km N of south peak, 1500m 6-8 Nov 1981, Earthwatch expedition.

Remarks: T-8012 (♂) gen. prep. PT-1162; T-8027 (♀) gen. prep. PT-1163.

**mucronata, *Pliocaloca* (Calocidae)**

Neboiss, 1984a: 271.

Paratypes ♂: T-7961 N Qld Bellenden Ker Range, Summit TV Stn, 1560m, 1-7 Nov 1981, Earthwatch expedition.

Paratype ♂: T-7962 N Qld Bellenden Ker Range, Cable Tower No. 3, 1054m, 25-31 Oct 1981, Earthwatch expedition.

Remarks: T-7961 (♂) gen. prep. PT-1168.

**muricatus, *Anisocentropus* (Calamoceratidae)**

Neboiss, 1980b: 205.

Holotype ♂: T-5803 NT. Butterfly Gorge, Katherine Gorge Nat. Pk, 27 Jan 1977, M.S. and B.J. Moulds.

Paratypes ♂: T-5804-5806 Same data as holotype.

Paratype ♂: T-5807 NT. Katherine Gorge, 24 km NE of Katherine, 16 Oct 1972, M.S. Upton.

Paratypes ♂/♀: T-5808-5812 NT. Muirella Park, 12 Oct 1972, E.F. Riek.

Remarks: T-5804 (♂) gen. prep. PT-590; T-5807 dry mounted specimen; T-5808 (♀) gen. prep. PT-614; T-5810 (♂) gen. prep. PT-592.

**muscari, *Orthotrichia* (Hydroptilidae)**

Wells, 1983: 638.

Holotype ♂: T-9538 Qld Iron Range, Middle Claudie R., 2-9 Oct 1974, M.S. Moulds.

**nama, *Austrochorema* (Hydrobiosidae)**

Neboiss, 1962: 536.

Paratype ♂: T-9632 ACT. Canberra, 14 Dec 1959, E.F. Riek.

Paratype ♀: T-9633 ACT. Canberra, 20 Nov 1959, E.F. Riek.

Remarks: T-9632-9633 dry mounted specimens.

**napaea, *Neureclipsis* (Polycentropodidae)**

Neboiss, 1986: 219.

Holotype ♂: T-8198 Vic. Mitta Mitta River, 8 km NE of Benambra, 5 Feb 1974, A. Neboiss.

Paratypes ♂/♀: T-8199-8219 Same data as holotype.

Remarks: T-8199 (♂) gen. prep. PT-1316; T-8209 (♀) gen. prep. PT-1317.

**neboissi, *Austratrichia* (Hydroptilidae)**

Wells, 1982: 260.

Holotype ♂: T-9226 Vic. Mitta Mitta River-Snowy Creek junction, 3 Nov 1976, A.A. Calder.

Allotype ♀: T-9227 Vic. Millgrove, Yarra River, 24 Feb 1976, A. Neboiss.

Paratype ♂: T-9228 Same data as holotype.

Paratype ♂: T-9229 Vic. Yarra River, 2 km N Wonga Park, 23

Feb 1976, Neboiss.

Paratype ♂: T-9230 Same data as allotype.

Remarks: T-9228 (♂) dissected.

**nemorosa, Caenota** (Calocidae)

Neboiss, 1984a: 273.

Holotype ♂: T-7989 N Qld Kirrama Range via Kennedy, 12 May 1975 R.I. Storey and D.I. Hancock.

Paratypes ♂/♀: T-7990 7994 Same data as holotype.

Paratypes ♂/♀: T-7995-8008 N. Qld Tinaroo Creek, 700-800m, 21 Feb 1982, M.S. Moulds.

Paratypes ♂: T-8009-8011 N Qld Little Crystal Creek, Mt Spec, 29 May 1971, E.F. Riek.

Remarks: T-7990 (♂) gen. prep. PT-1167; T-7992 (♀) gen. prep. PT-1173; T-8009 (♂) gen. prep. PT-1166; T-8010-8011 dry mounted specimens.

**nepotulus, Conoesucus** (Conoesucidae)

Neboiss, 1977: 111.

Holotype ♂: T-5285 Tas. Dip River Falls, 10 km S Mawbanna, 1 Dec 1974, A. Neboiss.

Allotype ♀: T-5286 Same data as holotype.

Paratypes ♂/♀: T-5287-5316 Same data as holotype.

Remarks: T-5301 (♂) gen. prep. PT-492; T-5316 (♀) abdomen figured.

**niveipennis, Triplectides** (Leptoceridae)

Mosely, 1953: 217.)

Paratype ♂: T-6669 WA. Yanchep, N of Perth, 13-23 Nov 1935, R.E. Turner.

Remarks: T-6669 gen. prep. PT 714 dry mounted specimen. Received in exchange from BMNH London.

**onychion, Ulmerochorema** (Hydrobiosidae)

Neboiss, 1977: 21.

Holotype ♂: T-4820 Tas. South Esk River nr Evandale, 1 Mar 1967, A. Neboiss.

Allotype ♀: T-4821 Same data as holotype.

Paratypes ♂/♀: T-4822 4851 Same data as holotype.

Remarks: T-4828 (♂) gen. prep. PT-369; T-4837 (♀) gen. prep. PT-370; T-4845 (♀) gen. prep. PT-425.

**opora, Moruya** (Hydrobiosidae)

Neboiss, 1962: 571.

Paratype ♀: T-5598 Tas. Derwent Bridge, 1 Apr 1960, E.T. Smith.

Paratype ♀: T-5599 Tas. Ouse River nr Great Lake, 2 Apr 1960, E.T. Smith.

Remarks: T-5599 (♀) abdomen lost.

**opsia, Stenopsychodes** (Stenopsychidae)

Neboiss, 1974a: 82.

Holotype ♂: T-4529 NSW. Boonoo Boonoo River, 25 km NE of Tenterfield, 11 Oct 1973, A. Neboiss.

Allotype ♀: T-4530 Same data as holotype.

Paratypes ♀: T-4531-4533 Same data as holotype.

Remarks: T-4529 (♂) gen. prep. PT-429; T-4532 (♀) gen. prep. PT-430; T-4533 dry mounted specimen.

**orba, Hydrobiosella** (Philopotamidae)

Neboiss, 1977: 47.

Holotype ♂: T-4479 Tas.(SW) Wedge River, 17 Feb 1971, A. Neboiss.

Remarks: T-4479 (♂) gen. prep. PT-179.

**orbostensis, Orthotrichia** (Hydroptilidae)

Wells, 1979c: 596.

Holotype ♂: T-5824 Vic. Brodribb River, Sardine Creek Track, 39 km N of Orbost, 16 Dec 1977, A. Neboiss.

**otwayensis, Taskiria** (Kokiridae)

Neboiss, 1984d: 89.

Holotype ♂: T-8083 Vic. Charley's Creek, 5 km S of Gellibrand, "Victree" pine plantation, 29 Jan 1982, A. Neboiss.

Remarks: T-8083 (♂) gen. prep. PT-1087.

**ousta, Leptocerus** (Leptoceridae)

Schmid, 1987: 126.

Holotype ♂: T-8104 N Qld Iron Range, Middle Claudie River,

14 Sep 1974, M.S. Moulds.

Paratype ♂: T-8105 N Qld Iron Range, West Claudie River, 17 Sep 1974, M.S. Moulds.

**oxypages, Apsilochorema** (Hydrobiosidae)

Neboiss, 1984b: 178.

Paratype ♂: T-9631 New Guinea (PNG), Western Highlands, Mt Hagen range, Murrumbidgee Pass, 8700 ft, 27 Oct-20 Dec 1961, W.W. Brandt.

Remarks: T-9631 (♂) gen. prep. PT-1213.

**paludosus, Condocerus** (Leptoceridae)

Neboiss, 1977: 140.

Holotype ♂: T-5450 Tas.(SW) Condominium Creek, 15 Feb 1971, A. Neboiss.

Allotype ♀: T-5451 Same data as holotype.

Paratypes ♂/♀: T-5452-5463 Same data as holotype.

Paratypes ♂/♀: T-5464-5468 Tas.(SW) Lake Pedder, 1 Feb 1965, A. Neboiss.

Remarks: T-5452 (♂) gen. prep. PT-241; T-5458 (♀) gen. prep. PT-242.

**pansus, Ecnomus** (Ecnomidae)

Neboiss, 1982a: 288.

Holotype ♂: T-6165 WA. Frankland River, Circular Pool, 27 Nov 1978, A. Neboiss.

Paratypes ♂/♀: T-6166-6193 Same data as holotype.

Remarks: T-6166 (♂) gen. prep. PT-642.

**papillata, Orphninostrichia** (Hydroptilidae)

Wells, 1980: 632.

Holotype ♂: T-6727 Vic. Tawonga, 28 Jan 1957, A. Neboiss.

Allotype ♀: T-6728 Same data as holotype.

**parilis, Lectrides** (Leptoceridae)

Neboiss, 1982a: 316.

Holotype ♂: T-6474 WA. Gingin Brook nr Moore River junction, 12 km E of Guilderton, 19 Nov 1978, A. Neboiss.

Allotype ♀: T-6481 Same data as holotype.

Paratypes ♂/♀: T-6475-6481; T-6482 6488 Same data as holotype.

Paratypes ♂/♀: T-6489 6492 WA. Margaret River, 10 Nov 1958, E.F. Riek.

Paratypes ♂/♀: T-6493-6494 WA. Nornalup, 17 Nov 1958, E.F. Riek.

Paratype ♀: T-6495 WA. Beedelup Falls, 13 Nov 1958, E.F. Riek.

Paratype ♂: T-6496 WA. 15 mi W Pemberton, 13 Nov 1958, E.F. Riek.

Paratype ♂: T-6680 WA. Moore River, 25 km WNW Mogumber, 23 Nov 1979, J. Blyth.

Paratype ♂: T-6681 WA. Beedelup Falls, 8 Dec 1979, J. Blyth. Remarks: T-6475 (♂) gen. prep. PT-647; T-6489-6495 dry mounted specimens.

**pauillus, Aphilorheithrus** (Philorheithridae)

Neboiss, 1977: 122.

Holotype ♂: T-5357 Tas. St Columba Falls, Pyengana, 21 Feb 1971, A. Neboiss.

Paratypes ♂: T-5358-5360 Same data as holotype.

Remarks: T-5358 (♂) gen. prep. PT-152.

**pectinella, Orthotrichia** (Hydroptilidae)

Wells, 1983: 635.

Holotype ♂: T-9539 Vic. Warburton, Yarra R., 17 Feb 1979, A. Neboiss.

Paratype ♂: T-9540 Vic. Bright, 25 Jan 1960, A. Neboiss.

Paratype ♂: T-9541 Vic. Wellington-Carey R. junction, 15 Feb 1977, A.A. Calder.

**pedderensis, Westriplectes** (Leptoceridae)

Neboiss, 1977: 126.

Holotype ♂: T-5376 Tas.(SW) Lake Pedder, 1 Feb 1965, A. Neboiss.

Allotype ♀: T-5377 Same data as holotype.

Paratypes ♂/♀: T-5378-5386 Same data as holotype.

Remarks: T-5380 (♂) gen. prep. PT-341; T-5384 (♀) wing prep. PT-498.



**perkinsi, Psyllobetina** (Hydrobiosidae)

Neboiss, 1962: 578.

Paratype ♂: T-5602 Qld Lamington Nat. Pk, 4 Jul 1955, I. Yeo.

**pilosa, Alloecella** (Helicophidae)

Neboiss, 1977: 98.

Holotype ♂: T-5208 Tas. Lake Lilla, Cradle Mt Nat. Pk, 14 Dec 1974, A. Neboiss.

Allotype ♀: T-5209 Same data as holotype.

Paratype ♀: T-5210 Same data as holotype.

Paratypes ♂: T-5211–5218 Tas. 4 km E of Liena, 17 Nov 1972, A. Neboiss.

Paratype ♂: T-5219 Tas. Dip River Falls, 10 km S of Mawbanna, 1 Dec 1974, A. Neboiss.

Remarks: T-5217 (♂) gen. prep. PT-216.

**plumosa, Stenoxyethira** (Hydroptilidae)

Wells, 1981: 117.

Holotype ♂: T-6501 N Qld Mulgrave River W of Gordonvale, 29 Apr 1979, A. Wells.

Species Remarks: Now placed in *Oxyethira* (*Dampfitrichia*).

**prolatus, Triplectides** (Leptoceridae)

Morse and Neboiss, 1982: 71.

Holotype ♂: T-7501 N Qld Mareeba, Davies Creek Road, 21 Feb 1976, A. Walford-Huggins.

Paratype ♂: T-7502 N Qld Crystal Cascades nr Cairns, 10 Jun 1971, E.F. Riek.

Paratype ♂: T-7503 N Qld Julatten, 21 Dec 1975, A. Walford-Huggins.

Paratype ♂: T-7504 N Qld Kuranda, 23 Jan 1975, N. Quick.

Remarks: T-7502 (♂) gen. prep. PT-841.

**proximus, Triplectides** (Leptoceridae)

Neboiss, 1977: 130.

Holotype ♂: T-5417 Tas. Leven River nr Heka, 17 Nov 1972, A. Neboiss.

Allotype ♀: T-5418 Tas. St Patrick's River, Targa, 22 Feb 1971, A. Neboiss.

Paratypes ♂: T-5419–5428 Same data as holotype.

Paratypes ♂/♀: T-5429–5438 Same data as allotype.

Remarks: T-5422 (♂) gen. prep. PT-218; T-5434 (♀) abdomen figured.

**pseudodelicata, Notalina** (Leptoceridae)

Neboiss, 1982a: 311.

Holotype ♂: T-6131 WA. Margaret River, Rapids Crossing, 25 km S of Busselton, 22 Nov 1978, A. Neboiss.

Paratypes ♂/♀: T-6132–6140 Same data as holotype.

Paratypes ♂/♀: T-6467–6471 WA. Blackwood River nr Sues Bridge, 25 Nov 1978, A. Neboiss.

Paratypes ♂/♀: T-6472–6473 WA. Blackwood River, 12 Nov 1958, E.F. Riek.

Remarks: T-6132 (♂) gen. prep. PT-651; T-6136 (♀) wings figured; T-6472–6473 dry mounted specimens.

**pseudorupina, Maydenoptila** (Hydroptilidae)

Wells, 1980: 643.

Holotype ♂: T-6694 Vic. Brodribb River Sardine creek track, 39 km N of Orbost 16 Dec 1976, A. Neboiss.

Allotype ♀: T-6696 Same data as holotype.

Paratypes ♂: T-6695; T-6697–6706 Same data as holotype.

Paratypes ♂/♀: T-6707–6726 Vic. Albert River nr Hiawatha, 3 Nov 1977, A. Neboiss.

**ramosa, Hellyethira** (Hydroptilidae)

Wells, 1983: 632.

Holotype ♂: T-9231 NT. Goanna Lagoon, 1 km W of Jabiru off Arnhem Highway, 27 Jun 1979, R. Marchant.

Allotype ♀: T-9232 Same data as holotype.

Paratypes ♂/♀: T-9233–9237 Same data as holotype.

Remarks: T-9232 (♀) dissected; T-9234 (♂) dissected.

**reclivatum, Allochorema** (Hydrobiosidae)

Neboiss, 1962: 530.

Paratype ♂: T-6115 NSW Clyde Mt, 2400 ft, 23 Jan 1961, I.F.B. Common and M.S. Upton.

Remarks: T-6115 dry mounted specimen.

**regia, Orphninothrichia** (Hydroptilidae)

Wells, 1980: 632.

Holotype ♂: T-6730 Vic. Kinglake, 29 Nov 1955, A. Neboiss.

Allotype ♀: T-6740 Same data as holotype.

Paratypes ♂/♀: T-6731–6739; T-6741–6753 Same data as holotype.

Paratypes ♂/♀: T-6754–6756 Vic. Snobs Creek Falls, 15 Dec 1955, A. Neboiss.

Paratype ♂: T-6757 Vic. Snobs Creek Falls, 24 Jan 1956, A. Neboiss.

**remulus, Kosrheithrus** (Philorheithridae)

Neboiss, 1977: 119.

Holotype ♂: T-5352 Tas. Russell Falls Nat. Pk, 23 Feb 1971, A. Neboiss.

Paratype ♂: T-5353 Same data as holotype.

Paratype ♂: T-5354 Tas. Russell Falls Nat. Pk, 19 Feb 1971, A. Neboiss.

Paratypes ♂: T-5355–5356 Tas. Russell Falls Nat. Pk, 5 Dec 1972, P. Zwick.

Remarks: T-5354 (♂) gen. prep. PT-153.

**repandus, Nyctiophylax** (Polycentropodidae)

Neboiss, 1977: 65.

Holotype ♂: T-4983 Tas. Scamander River, Upper Scamander, 9 Nov 1972, A. Neboiss.

Allotype ♀: T-4984 Same data as holotype.

Paratypes ♂/♀: T-4985–4991 Same data as holotype.

Paratypes ♂: T-4992–4996 Tas. St Columba Falls, Pyengana, 21 Feb 1971, A. Neboiss.

Remarks: T-4984 (♀) gen. prep. PT-277; T-4985 (♂) gen. prep. PT-437; T-4988 (♂) gen. prep. PT-161.

**retracta, Oxyethira** (Hydroptilidae)

Wells, 1981: 110.

Holotype ♂: T-6511 WA. Serpentine River, Serpentine Falls, 20 Nov 1978, A. Neboiss.

Allotype ♀: T-6512 Same data as holotype.

Paratypes ♂/♀: T-6513–6520 Same data as holotype.

Paratypes ♂/♀: T-6521–6526 WA. Harvey River nr Harvey Falls, 15 km E of Harvey, 21 Nov 1978, A. Neboiss.

Paratypes ♂/♀: T-6527–6532 WA. Margaret River, Rapids Crossing, 25 km S of Busselton, 22 Nov 1978, A. Neboiss.

Paratypes ♂/♀: T-6533–6546 WA. Cape Leeuwin Nat. Pk Spring, 25 Nov 1978, A. Neboiss.

**rieki, Taschorema** (Hydrobiosidae)

Neboiss, 1962: 566.

Paratype ♂: T-6116 NSW. New England Nat. Pk, 9 Jan 1958, E.F. Riek.

Remarks: T-6116 dry mounted specimen.

**robusta, Hydroptila** (Hydroptilidae)

Wells, 1979a: 747.

Holotype ♂: T-6005 Vic. Yarra River, Millgrove, 24 Feb 1976, A. Neboiss.

Allotype ♀: T-6006 Same data as holotype.

Paratypes ♂/♀: T-5981–6000 Same data as holotype.

Remarks: T-6005 (♂) and T-6006 (♀) mounted on microscope slides.

**rossi, Triplectides** (Leptoceridae)

Morse and Neboiss, 1982: 77.

Holotype ♂: T-7491 N Qld Mt Fisher, 8 km SW of Millaa Millaa, 21 Nov 1979, M.S. and B.J. Moulds.

Paratypes ♀: T-7492–7493 Same data as holotype.

Paratype ♂: T-7494 N Qld Kirrama State Forest (Western Fall), 30 May 1971, E.F. Riek.

Paratype ♂: T-7496 N Qld Lock-Davies Creek Road, Lamb Range, Mareeba distr., 25 Dec 1976, M.S. and B.J. Moulds.

Paratype ♀: T-7508 N Qld Kirrama State Forest, 24 km WNW of Kennedy, 28 Jan 1981, M.S. and B.J. Moulds.

Paratypes ♂: T-7519–7521 N Qld Lock-Davies Creek Road, Lamb Range, Mareeba distr., 10 Nov 1974, M.S. Moulds.

Paratype ♂: T-7546 N Qld Bellenden Ker Range, Summit TV Stn, 1560 m, 1–7 Nov 1981, Earthwatch expedition.

Remarks: T-7494 (♂) gen. prep. PT-838; T-7508 (♀) gen. prep. PT-876.



**rostrata, Orthotrichia** (Hydroptilidae)

Wells, 1979c: 598.

Holotype ♂: T-5825 NSW. Styx River, 12 km S of Ebor, 17 Oct 1973, A. Neboiss.

Allotype ♀: T-5828 Same data as holotype.

Paratypes ♂: T-5826–5827 Same data as holotype.

**rubiconum, Ulmerochorema** (Hydrobiosidae)

Neboiss, 1962: 542.

Paratypes ♂: T-5551 5552 Vic. Snobs Creek, 24 Jan 1956, A. Neboiss.

Paratypes ♂/♀: T-5553–5561; T-5564 5571 Vic. Timbertop nr Merrijig, Oct 1958, I.F. Edwards.

Paratype ♀: T-5562 Vic. Rubicon, 15 Dec 1955, A. Neboiss.

Paratype ♀: T-5563 Vic. Merrijig, 23 Jan 1956, A. Neboiss.

Remarks: T-5563 (♀) gen. prep. PT-1711.

**rupina, Maydenoptila** (Hydroptilidae)

Neboiss, 1977: 45.

Holotype ♂: T-5081 Tas. Guide River Falls nr Ridgley, 18 Nov 1972 A. Neboiss.

Allotype ♀: T-5082 Same data as holotype.

Paratypes ♂/♀: T-5083–5110 Same data as holotype.

Paratypes ♂: T-5111–5113 Tas. Scamander River, Upper Scamander, 9 Nov 1972 A. Neboiss.

Remarks: T-5111 (♂) wings dissected (in alcohol); T-5112 (♂) gen. prep. PT-291.

**russellius, Ecnomus** (Ecnomidae)

Neboiss, 1977: 56.

Holotype ♂: T-4854 Tas. Russell Falls National Park, 20 Feb 1967, A. Neboiss.

Allotype ♀: T-4855 Same data as holotype.

Paratypes ♂/♀: T-4856–4860 Same data as holotype.

Remarks: T-4856 (♂) gen. prep. PT-261; T-4859 (♂) gen. prep. PT-1319; T-4860 (♀) gen. prep. PT-262.

**sagitta, Hydrobiosella** (Philopotamidae)

Neboiss, 1977: 51.

Holotype ♂: T-4489 Tas. (NE) St Columba Falls nr Pyengana, 21 Feb 1971, A. Neboiss.

Allotype ♀: T-4490 Same data as holotype.

Paratypes ♂: T-4491 4495 Same data as holotype.

Remarks: T-4489 (♂) gen. prep. PT-189; T-4490 (♀) gen. prep. PT-190.

**scamandra, Hydroptila** (Hydroptilidae)

Neboiss, 1977: 41.

Holotype ♂: T-5011 Tas. Upper Scamander, Scamander River, 9 Nov 1972, A. Neboiss.

Paratype ♂: T-5012 Same data as holotype.

Remarks: T-5012 (♂) gen. prep. PT-292.

**scindens, Ecnomina** (Ecnomidae)

Neboiss, 1982a: 295.

Holotype ♂: T-6332 WA. Harvey River, nr Harvey Falls, 15 km E Harvey, 21 Nov 1978, A. Neboiss.

Paratypes ♂/♀: T-6333 6362 Same data as holotype.

Remarks: T-6334 (♂) gen. prep. PT-626; T-6362 (♀) gen. prep. PT-724.

**scirpicula, Oecetis** (Leptoceridae)

Neboiss, 1977: 149.

Holotype ♂: T-5501 Tas. Penstock Lagoon, 27 Feb 1971, A. Neboiss.

Allotype ♀: T-5502 Same data as holotype.

Remarks: T-5501 (♂) gen. prep. PT-240.

**scutata, Orthotrichia** (Hydroptilidae)

Wells, 1979c: 600.

Paratypes ♂/♀: T-5897–5899 WA. Stonewall Creek, 4 Feb 1978, J.E. Bishop.

**secutum, Ethochorema** (Hydrobiosidae)

Neboiss, 1977: 24.

Paratypes ♂: T-5136; T-5595 Tas. 10 mi E of Strahan, 6 Feb 1967, E.F. Riek.

Paratypes ♂: T-5137 5138 Tas. 10 mi E of Strahan, 20 Feb 1963, I.F.B. Common and M.S. Upton.

Remarks: T-5136 (♂) gen. prep. PT-497; T-5137, T-5138, 5595 dry mounted specimens.

**sentosa, Ecnomina** (Ecnomidae)

Neboiss, 1982a: 290.

Holotype ♂: T-6271 WA. Margaret River, Rapids Crossing, 25 km S of Busselton, 22 Nov 1978, A. Neboiss.

Paratypes ♂/♀: T-6272 6331 Same data as holotype.

Remarks: T-6272 (♂) gen. prep. PT-630.

**seposita, Costora** (Conoesucidae)

Neboiss, 1977: 106.

Holotype ♂: T-5281 Tas. creek nr Marakoopa Caves, 15 Dec 1974, A. Neboiss.

Remarks: T-5281 (♂) gen. prep. PT-488.

**silicis, Orphninostrichia** (Hydroptilidae)

Wells, 1980: 635.

Holotype ♂: T-6667 N Qld Tinaroo Lake road, stream at M4, 6 Aug 1972, O.S. and C.M. Flint.

Remarks: T-6667 (♂) Presented by O.S. Flint. Note: Dry mounted specimen.

**spicula, Ipsebiosis** (Hydrobiosidae)

Neboiss, 1977: 18.

Holotype ♂: T-4810 Tas. Lake Dobson, 20 Feb 1967, A. Neboiss.

Allotype ♀: T-4811 Same data as holotype.

Paratypes ♂/♀: T-4812 Tas. Waldheim, Cradle Nat. Pk, 7 Feb 1971, A. Neboiss.

Paratype ♂: T-4814 Tas.(SW) Lake Pedder, 1 Feb 1965, A. Neboiss.

Paratype ♂: T-4815 Tas.(SW) Condominium Creek, 15 Feb 1971, A. Neboiss.

Paratype ♂: T-4816 Tas. St Patrick's River, Targa, 22 Feb 1971, A. Neboiss.

Paratype ♀: T-4817 Tas. Huon Plain nr Scotts Peak, 2 Feb 1965, A. Neboiss.

Paratype ♀: T-4818 Tas. Huon River Crossing, 16 Feb 1971, A. Neboiss.

Paratype ♀: T-4819 Tas. Derwent River, 2 km NW of Derwent Bridge, 20 Feb 1963, I.F.B. Common and M. Upton.

Paratype ♂: T-6122 Tas. 10 mi E Strahan, 20 Feb 1963, I.F.B. Common and M.S. Upton.

Remarks: T-4810 (♂) gen. prep. PT-339; T-4811 (♀) gen. prep. PT-340; T-4814 (♂) gen. prep. PT-136; T-6122 dry mounted specimen.

**spilota, Tasmanoplegas** (Polycentropodidae)

Neboiss, 1977: 64.

Holotype ♂: T-4980 Tas.(SW) Arthur Plains, 6 Feb 1965, A. Neboiss.

Allotype ♀: T-4981 Same data as holotype.

Paratype ♀: T-4982 Same data as holotype.

Remarks: T-4980 (♂) gen. prep. PT-255; T-4981 (♀) gen. prep. PT-256; Both dry mounted specimens.

**stipa, Orthotrichia** (Hydroptilidae)

Wells, 1979c: 614.

Paratype ♂: T-5905 WA. Mitchell Plateau, trib. of Camp Creek, 19 Jul 1978, P. Suter and M.J. Tyler.

**subulata, Orphninostrichia** (Hydroptilidae)

Wells, 1983: 647.

Holotype ♂: T-9370 NSW. Undercliffe Falls, 12 km E Liston, 24 Oct 1981, A. Wells and D. Carter.

**suteri, Orthotrichia** (Hydroptilidae)

Wells, 1979c: 605.

Paratype ♂: T-5904 WA. Mitchell Plateau, Camp Creek at Crusher Site, 21 Jul 1978, P. Suter and M.J. Tyler.

**syncope, Notoperata** (Leptoceridae)

Neboiss, 1982a: 307.

Holotype ♂: T-6446 WA. Jandakot, 24 Jan 1972, J.C. Taylor.

Paratypes ♂/♀: T-6447–6457 Same data as holotype.

Paratypes ♂/♀: T-6458–6464 WA. Jandakot, 2 Feb 1972, J.C. Taylor.

Remarks: T-6447 (♂) gen. prep. PT-631; T-6464 (♂) gen. prep. PT-700.

**syrdena, Stenopsychodes** (Stenopsychidae)

Neboiss, 1974a: 84.

Holotype ♂: T-4534 NSW. Dorrigo Nat. Pk, 2500 ft, 19 Nov 1973, M.S. Moulds.

Allotype ♀: T-4535 Same data as holotype.

Paratypes ♂: T-4536–4537 Same data as holotype.

Remarks: T-4535 (♀) gen. prep. PT-444; T-4537 (♂) gen. prep. PT-436; T-4534–4537 dry mounted specimens.

**tenax, Notoperata** (Leptoceridae)

Neboiss, 1982a: 307.

Holotype ♂: T-6444 WA. Canterbury Brook, 16 km E of Northcliffe, 29 Dec 1979, J. Blyth.

Paratype ♂: T-6445 WA. Waroona, 22 Mar 1971, E.F. Riek.

Remarks: T-6445 (♂) gen. prep. PT-672.

**thinotes, Ecnomina** (Ecnomidae)

Neboiss, 1978: 827.

Holotype ♂: T-5699 Qld Fraser Is., Lake Wabby, 7 May 1975, H. Burton.

Allotype ♀: T-5700 Same data as holotype.

Paratype ♀: T-5701 Same data as holotype.

Paratype ♂: T-5702 Qld Fraser Is., Lake Wabby south end, 14 Dec 1975, H. Burton.

Paratypes ♂/♀: T-5703–5710 Qld E. of Lake Bowarrady, nr VA299, 2–3 Dec 1975, A. Slater and G. Thompson.

Paratype ♂: T-5711 Qld Yidney Scrub, nr VB52, 3–4 Dec 1975, G. Thompson and A. Slater.

Remarks: T-5703 (♂) gen. prep. PT-546; T-5710 (♀) gen. prep. PT-554.

**tortuosa, Orthotrichia** (Hydroptilidae)

Wells, 1979c: 612.

Holotype ♂: T-5829 Vic. Genoa River nr Wangarabell, 18 Mar 1977, A. Neboiss.

Paratypes ♂/♀: T-5830–5843 Same data as holotype.

Paratypes ♂/♀: T-5844–5846 Vic. Mitchell River nr Tabberabbera, 30 Dec 1975, A. Neboiss.

**torulus, Anisocentropus** (Calamoceratidae)

Neboiss, 1980b: 211.

Holotype ♂: T-5913 N Qld Kareeya Power Station, Cardstone, 22 Dec 1976, M.S. Moulds.

Allotype ♀: T-5914 Same data as holotype.

Paratypes ♂/♀: T-5915–5940 Same data as holotype.

Paratypes ♂/♀: T-6069–6075 N. Qld Upper Freshwater Creek, Whitfield Rd nr Cairns, 15 Dec 1974, M.S. Moulds.

Paratype ♂: T-6075 N Qld Little Mulgrave River, 28 Jun 1971, E.F. Riek.

Remarks: T-5924 (♂) gen. prep. PT-587; T-5929 (♂) gen. prep. PT-620; T-6069 (♂) gen. prep. PT-520; T-6073 (♀) gen. prep. PT-519; T-6075 dry mounted specimen.

**triangulata, Oxyethira** (Hydroptilidae)

Wells, 1981: 108.

Holotype ♂: T-6547 N Qld Crystal Creek nr Turnoff to Mt Spec, 2 May 1979, A. Wells.

Allotype ♀: T-6548 Same data as holotype.

Paratypes ♂/♀: T-6549–6568 Same data as holotype.

**tridens, Tricholeiochiton** (Hydroptilidae)

Wells, 1982: 256.

Holotype ♂: T-9409 WA. Mitchell Plateau, 30 Jan 1978, J.E. Bishop.

Allotype ♀: T-9410 Same data as holotype.

Paratypes ♂/♀: T-9411 9432 Same data as holotype.

Remarks: T-9411 (♂) dissected; T-9422 (♀) dissected.

**truchanasi, Nanoplectrus** (Plectrotarsidae)

Neboiss, 1977: 77.

Holotype ♂: T-5205 Tas.(SW) Junction Creek, Arthur Plains, 6 Feb 1966, A. Neboiss.

Remarks: T-5205 (♂) gen. prep. PT-140.

**trulla, Ecnomina** (Ecnomidae)

Neboiss, 1982a: 295.

holotype ♂: T-6242 WA. Napier Creek, 22 km NE of Albany, 29 Nov 1978 A. Neboiss.

Remarks: T-6242 (♂) gen. prep. PT-628.

**truncatus, Triplectides** (Leptoceridae)

Morse and Neboiss, 1982: 129.

Holotype ♂: T-5387 Tas. Bluff Hill Creek, 12 km S of Marawah, 30 Nov 1974, A. Neboiss.

Allotype ♀: T-5388 Same data as holotype.

Paratypes ♂/♀: T-5389–5405 Same data as holotype.

Remarks: T-5389 (♂) gen. prep. PT-495; T-5405 (♀) gen. prep. PT-496.

**turbidum, Taschorema** (Hydrobiosidae)

Neboiss, 1962: 555.

Paratypes ♂/♀: T-5520; T-5529 Vic. Porepunkah, 26 Jan 1960, A. Neboiss.

Paratypes ♂/♀: T-5521 5528 Vic. Timbertop nr Merrijig, 12–20 Apr 1958, I. Edwards.

Paratypes ♀: T-5530–5534 Vic. Timbertop nr Merrijig, Oct 1958, I. Edwards.

**turgidus, Ecnomus** (Ecnomidae)

Neboiss, 1982a: 289.

Holotype ♂: T-6194 WA. Serpentine River below Serpentine Falls, 20 Nov 1978 A. Neboiss.

Paratypes ♂: T-6195 6235 Same data as holotype.

Remarks: T-6195 (♂) gen. prep. PT-643.

**turrita, Orthotrichia** (Hydroptilidae)

Wells, 1979c: 600.

Paratype ♂: T-5900 WA. Mitchell Plateau, Camp Creek, 13 Jul 1978, P. Suter and M.J. Tyler.

**tyleri, Orthotrichia** (Hydroptilidae)

Wells, 1979c: 618.

Paratypes ♂: T-5849–5852 WA. Mitchell Plateau, trib. of Camp Creek, 19 Jul 1978, P. Suter and Tyler.

**umbra, Oecetis** (Leptoceridae)

Neboiss, 1977: 144.

Holotype ♂: T-5489 Tas. Waldheim, Cradle Mtn. Nat. Pk, 7 Feb 1971, A. Neboiss.

Allotype ♀: T-5490 Same data as holotype.

Remarks: T-5489 (♂) gen. prep. PT-201.

**urbana, Baliomorpha** (Hydropsychidae)

Neboiss, 1984: 130.

Holotype ♂: T-8057 Qld Mt Nebo, 13 Dec 1959, J. Kerr.

Paratypes ♂/♀: T-8058 8071 Same data as holotype.

Remarks: T-8058 (♂) gen. prep. PT-693; T-8068 (♀) gen. prep. PT-1329.

**urdalum, Apsilochorema** (Hydrobiosidae)

Neboiss, 1962: 528.

Paratype ♂: T-6113 WA. Kalamunda, 6 Nov 1958, E.F. Riek.

Paratype ♀: T-6114 WA. Beedelup Falls, 13 Nov 1958, E.F. Riek.

Remarks: T-6113–6114 dry mounted specimens.

**urimica, Orthotrichia** (Hydroptilidae)

Wells, 1984: 279.

Paratypes ♂/♀: T-9634 9683 New Guinea, D.P.I. Urimo Station, 2–3 Dec 1977, B. Kadeu.

**valgus, Anisocentropus** (Calamoceratidae)

Neboiss, 1980b: 207.

Holotype ♂: T-6076 Vic. Tanjil River, 10 km N of Willow Grove, 18 Dec 1973, A. Neboiss.

Paratypes ♂/♀: T-6077–6090 Same data as holotype.

Paratypes ♂: T-6091–6094 Vic. Silver Creek, 6 km S of Flowerdale, 24 Feb 1978, A. Neboiss.

Paratypes ♂/♀: T-6095–6102 Vic. Taponga River, 12 km SW of Jamieson, 19 Dec 1972, P. Zwick.

Remarks: T-6077 (♂) gen. prep. PT-609; T-6091 (♂) gen. prep. PT-596; T-6095 (♂) gen. prep. PT-518; T-6098 (♀) gen. prep. PT-525.

**vallecula, Hellyethira** (Hydroptilidae)

Neboiss, 1977: 42.

Holotype ♂: T-5033 Tas. Hellyer River Gorge, 9 Feb 1971, A. Neboiss.

Allotype ♀: T-5034 Same data as holotype.

Paratypes ♂/♀: T-5035 5039 Same data as holotype.



Paratype ♂: T-5040 Tas.(SW) Wedge River, 30 mi W of Maydena, 26 Feb 1967, A. Neboiss.

Paratype ♂: T-5041 Tas. Huon River Crossing, 16 Feb 1971, A. Neboiss.

Remarks: T-5035 (♂) gen. prep. PT-510; T-5037 (♀) gen. prep. PT-511.

**vega, Ecnomina** (Ecnomidae)

Neboiss, 1977: 58.

Holotype ♂: T-4900 Tas. Macquarie River, 8 km W of Campbell Town, 9 Nov 1972, A. Neboiss.

Remarks: T-4900 (♂) gen. prep. PT-175.

**velata, Orthotrichia** (Hydroptilidae)

Wells, 1983: 641.

Holotype ♂: T-9542 Qld Upper Ross R., below weir, 8 May 1979, L. Penridge and A. Wells.

Allotype ♀: T-9543 Same data as holotype.

Paratypes ♂/♀: T-9544-9573 Same data as holotype.

Remarks: T-9544 (♂) dissected.

**verna, Tanjistomella** (Kokiriidae)

Neboiss, 1974b: 176.

Holotype ♂: T-4544 Vic. Tanjil River, Walhalla Road, 22 Oct 1973, C. McCubbin and A. Morison.

Paratype ♂: T-4545 Same data as holotype.

Remarks: T-4545 (♂) gen. prep. PT-446.

**vernalis, Archaeophylax** (Limnephilidae)

Neboiss, 1977: 79.

Holotype ♂: T-5206 Tas.(SW) Lake Pedder, 12 Mar 1972 A. Neboiss.

Remarks: T-5206 (♂) gen. prep. PT-133 dry mounted specimen.

**vernoni, Hellyethira** (Hydroptilidae)

Wells, 1983: 632.

Holotype ♂: T-9238 Qld Crystal Creek, nr turnoff to Mt Spec, 17 Apr 1979, A. Wells.

Allotype ♀: T-9239 Same data as holotype.

Paratypes ♂/♀: T-9240-9243 Qld Alice River on Hervey Range Road, 9 May 1979, A. Wells and L. Penridge.

Paratypes ♂/♀: T-9244-9245 Qld Crystal Creek, nr turnoff to Mt Spec, 2 May 1979, A. Wells.

Paratypes ♂/♀: T-9246-9254 Qld Leichardt Ck on Bruce Hwy north of Townsville, 12 Apr 1979, A. Wells.

**vesca, Lingora** (Conoesucidae)

Neboiss, 1977: 108.

Holotype ♂: T-5284 Tas. North Esk River, Blessington, 1 Mar 1967, A. Neboiss.

Remarks: T-5284 (♂) gen. prep. PT-398.

**viatica, Ecnomina** (Ecnomidae)

Neboiss, 1982a: 293.

Holotype ♂: T-6363 WA. Margaret River, Rapids Crossing, 25 km S of Busselton, 22 Nov 1978, A. Neboiss.

Paratypes ♂/♀: T-6364-6407 Same data as holotype.

Remarks: T-6364 (♂) gen. prep. PT-629; T-6402 (♀) gen. prep. PT-725.

**virgatus, Ramiheithrus** (Philorheithridae)

Neboiss, 1974c: 323.

Holotype ♂: T-4558 Vic. McKay Creek, Sassafras Gap, 2 Feb 1974, A. Neboiss.

Paratypes ♂: T-4559-4566 Vic. McKay Creek, Sassafras Gap, 2 Feb 1974, A. Neboiss.

Remarks: T-4566 (♂) Donation to Canadian National Insect Collection; T-4559 (♂) gen. prep. PT-464.

**viridarium, Taschorema** (Hydrobiosidae)

Neboiss, 1962: 563.

Paratypes ♂/♀: T-5535-5550 Tas. Dove River nr Lake Dove, 20 Nov 1955, T.E. Woodward.

**volutus, Adectotophylax** (Polycentropodidae)

Neboiss, 1982a: 299.

Holotype ♂: T-6255 WA. Harvey River, nr Harvey Falls, 15 kms E of Harvey, 21 Nov 1978, A. Neboiss.

Allotype ♀: T-6257 Same data as holotype.

Paratype ♂: T-6256; T-6258-6259; T-6758 Same data as holotype.

Remarks: T-6256 (♂) gen. prep. PT-641; T-6758 (♂) gen. prep. PT-736.

**walpolica, Oecetis** (Leptoceridae)

Neboiss, 1982: 321.

Holotype ♂: T-6596 WA. Frankland River, Circular Pool, 6 km NE of Walpole, 27 Nov 1978, A. Neboiss.

Allotype ♀: T-6608 Same data as holotype.

Paratypes ♂: T-6597-6607 Same data as holotype.

Paratypes ♂: T-6759-6761 WA. Jacup, 22 Nov 1958, E.F. Riek.

Remarks: T-6597 (♂) gen. prep. PT-658; T-6607 (♂) gen. prep. PT-660; T-6759 (♂) gen. prep. PT-730 dry mounted specimen; T-6760-6761 dry mounted specimen.

**yabbaca, Orthotrichia** (Hydroptilidae)

Wells, 1983: 642.

Holotype ♂: T-9574 Qld Yabba Creek, 10 km W Imbil, 26 Oct 1980, A. Neboiss.

Allotype ♂: T-9575 Same data as holotype.

Paratype ♂: T-9576 Same data as holotype.

Remarks: T-9576 (♂) dissected.

**zonata, Targatrichia** (Hydroptilidae)

Neboiss, 1977: 41.

Holotype ♂: T-5013 Tas. St Patrick's River, Targa, 22 Feb 1971, A. Neboiss.

Allotype ♀: T-5014 Same data as holotype.

Paratypes ♂/♀: T-5015-5032 Same data as holotype.

Remarks: T-5015 (♂) gen. prep. PT-288; T-5016 (♂) gen. prep. PT-507; T-5021 (♀) gen. prep. PT-289.

Species Remarks: Now in the genus *Orthotrichia*.

**zothecula, Tanjilana** (Hydrobiosidae)

Neboiss, 1962: 550.

Paratypes ♂/♀: T-6117-6118 ACT. Canberra, 14 Sep 1959, E.F. Riek.

Remarks: T-6117 (♂) gen. prep. PT-1680; T-6117-6118 dry mounted specimens.



# Types of Plecoptera (Insecta) held in the Museum of Victoria

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Abstract. Neboiss, A. and Walker, K. 1989. Types of Plecoptera (Insecta) held in the Museum of Victoria. *Occasional Papers from the Museum of Victoria* 4: 57–61.

The type designations, registration numbers and type localities of type specimens of 65 nominal species of Australian stoneflies (Plecoptera) held in the Museum of Victoria collection are reported.

## Introduction

Intensive taxonomic studies of Australian stoneflies (Plecoptera) started only in the late 1950s coinciding with a rising interest in freshwater insect fauna and protection of the aquatic environment. Most type specimens are therefore based on the material collected since this interest began.

The oldest specimen is a paralectotype of *Perla opposita*, a specimen described by Francis Walker in 1852. The phylogenetically most interesting genus *Thaumatoperla* is represented by holotypes of all four known species *T. robusta* described by Tillyard (1921), *T. alpina* and *T. flaveola* by Burns and Neboiss (1957) and *T. timmsi* by Zwick (1979). Other type material is from Illies, Hynes, McLellan, Theischinger and Weir. Professor Hynes donated most of the material including types which he assembled during his study of Tasmanian and Victorian stonefly fauna. Descriptions of new species appeared in four publications (Hynes, 1974, 1976, 1982 and Hynes and Bunn, 1984).

Although most of the collection is based on recently assembled material, a few problems were discovered in the process of registration. Several types cited in the literature as being deposited in the collection could not be located and their whereabouts are not known. These include the holotype ♂ and paratypes, 2♂ and 2♀ of *Riekoperla triloba regalis* Hynes, 1982; *Austroheptura illiesi* Hynes, 1974, paratype ♂; *Eustheniopsis nothophagi* Zwick, 1979, paratype ♀; and *Riekoperla barringtonensis* Theischinger, 1985, paratypes ♂, ♀. The locality labels on type specimens do not always correspond with published information. In some instances the original label by Hynes bears only an abbreviated locality or site number with date and a designation “Ty” or “Type” meaning “Holotype” and referring to the male if a female or nymphs are present (Hynes, in litt., Jan 1981.). In the process of curation individual specimens have been placed in separate vials, sexed and stored jointly in a larger vial.

The Museum of Victoria (formerly National Museum of Victoria) insect type register bears the prefix T. Most of the stonefly collection is stored in glass vials in 80% ethanol, except for a few staged, dry specimens.

The species names in this catalogue appear in alphabetic order followed by the original genus and family. Author, year and page numbers of the original publication follow. The complete reference is given at the end of the catalogue. Any taxonomic changes, synonymies or other comments are given in the remarks.

The catalogue has been extracted from the type register. All type data is stored on computer using the TITAN Database system.

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**agricola, Trinotoperla** (Gripopterygidae)

Hynes, 1976: 138.

Holotype ♂: T-8504 Tas. Farm Creek, 4 km N Tullah, 6 Nov 1972, A. Neboiss.

Paratype ♀: T-8505 Same data as holotype.

Paratype ♂: T-8506 Tas.(SW) Condominium Creek, 14 Feb 1971, A. Neboiss.

Remarks: T-8504 (♂) gen. prep.; T 8056 (♂) gen. prep.

Species Remarks: Now synonym of *Trinotoperla tasmanica* (McLellan)

**alpina, Thaumatoerla** (Eustheniidae)

Burns and Neboiss, 1957: 93.

Holotype ♀: T-429 Vic. Mt Fainter, 4000–5000 ft, 18 Apr 1954, J. Brownlie.

Paratypes ♀: T-430–431 Vic. Mt Bogong district, ca 4000 ft, 16 Mar 1957, Miss Purnell and Mr McComb.

Remarks: T-429–431 dry mounted specimens.

**alpina, Austrocercella** (Notonemouridae)

Theischinger, 1984b: 697.

Paratypes ♂/♀: T-8337–8349 NSW. Burns Creek, 10 km S of Cabramurra, 4 Apr 1978, A. Neboiss.

Paratypes ♂/♀: T-8350–8354 NSW. Crackenback River at Thredbo Village, 6 Apr 1978, A. Neboiss.

Paratypes ♂/♀: T-8355–8378 NSW. Khancoban Back Creek, 10 km SE Khancoban, 3 Apr, 1978 A. Neboiss.

Paratypes ♂/♀: T-8379–8399 NSW. Ogilvie Creek, 15 km SW of Cabramurra, 4 Apr 1978, A. Neboiss.

Paratype ♀: T-8400 NSW. Thredbo Village, 24 Feb 1969, A. Neboiss.

Paratypes ♂/♀: T-8401–8402 Vic. Mt Buller, White Falls, 28 Mar 1958, A. Neboiss.

Paratype ♂: T-8403 Vic. Chain Bay Stream, 25 Feb 1972, M.E. Hynes.

Paratype ♀: T-8404 Vic. Mt McKay, 26 Jan 1960, A. Neboiss.

Paratypes ♂/♀: T-8405–8413 Vic. Rubicon, 29 Mar 1957, A. Neboiss.

Paratypes ♂/♀: T-8414–8416 Vic. Mt Stirling, 16 Mar 1963, A. Neboiss.

Paratypes ♂/♀: T-8417–8421 Vic. Tanjil Bren, 22 Mar 1958, A. Neboiss.

Paratypes ♂: T-8422–8423 Vic. Whitelaw Creek, Main Thomson Valley Road, 11 km SW Aberfeldy, 11 Feb 1977, A.A. Calder.

Remarks: T-8414–8416 (♂/♀) gen. preps. in one vial.

**angusta, Riekoperla** (Gripopterygidae)

Theischinger, 1985: 800.

Holotype ♂: T-8123 Vic. Cement Creek, 11–12 Oct 1971, M.E. and N. Hynes.

Paratypes ♂/♀: T-8271–8276 Same data as holotype.

Paratypes ♂: T-8277–8278 Vic. Cement Creek, 12–13 Oct 1971, M.E. and N. Hynes.

Paratypes ♂: T-8279–8281 Vic. Chain Bay Stream, 26 Oct 1971, M.E. Hynes.

Paratype ♂: T-8282 Vic. Headwater of Charity Creek, Mt Baw Baw, 19 Oct 1971, M.E. Hynes.

Paratypes ♂/♀: T-8283–8286 Vic. Lake Mountain, 18 Jan 1976, I. Campbell.

Paratype ♀: T-8287 Vic. Stream on Mt Victoria, 1900 ft, 5 Oct 1971, M.E. Hynes.

Paratypes ♂/♀: T-8288–8291 NSW. Stream 1 mile E of Guthega Dam, 9 Dec 1971, M.E. Hynes.

**arenaria, Dinotoperla** (Gripopterygidae)

Hynes, 1974: 27.

Holotype ♂: T-4555 Vic. Wilks Creek, nr Marysville, 16 Sep 1971, M.E. Hynes.

Allotype ♀: T-4556 Same data as holotype.

Paratype ♀: T-4557 Same data as holotype.

Species Remarks: Now a synonym of *Dinotoperla eucumbene* McLellan.

**austrosimplex, Illiesoperla** (Gripopterygidae)

Theischinger, 1984a: 578.

Paratypes ♂/♀: T-8081–8082 Vic. Aire River, 4 km NE of

Glenaire, 4 Dec 1972, A. Neboiss and H. Malcolm.

Species Remarks: Now synonym of *Dinotoperla eucumbene* McLellan.

**autumnalis, Austrocercella** (Notonemouridae)

Theischinger, 1984b: 697.

Paratypes ♂/♀: T-8424–8429 Vic. Rubicon, 29 Mar 1957, A. Neboiss.

**barbara, Illiesoperla** (Gripopterygidae)

Theischinger, 1984a: 589.

Holotype ♂: T-8077 N. Qld 25 km along Mt Lewis Road, SW of Mossman, 16 Jan 1977, M.S. and B.J. Moulds.

Paratype ♂: T-8078 N. Qld Lock Creek, Davis Creek Road. Lamb range Mareeba district, 25 Dec 1976, M.S. Moulds.

Paratypes ♀: T-8079–8080 Same data as holotype.

**bassae, Dinotoperla** (Gripopterygidae)

Hynes, 1982: 144.

Holotype ♂: T-8041 Tas. Headwater of Prosser R., 2 km S of Levendale, 15–16 Sept 1978, M.E. and N. Hynes.

Paratypes ♂/♀: T-8042; T-8049–8052 Same data as holotype.

Paratypes nymphs: T-8043–8044 Same data as holotype.

Paratypes nymphs: T-8045–8046 Tas. Headwater of Prosser R., 2 km S of Levendale, 24 Aug 1978, M.E. and N. Hynes.

Paratypes ♂/♀: T-8047–8048; T-8053–8054 Tas. Headwater of Prosser R., 2 km S of Levendale, 23 Sep 1978, M.E. and N. Hynes.

**brevicauda, Illiesoperla** (Gripopterygidae)

Theischinger, 1984a: 581.

Holotype ♂: T-8072 Vic. Yarra River, Millgrove, 24 Feb 1976, A. Neboiss.

Paratypes ♂: T-8073–8075 Same data as holotype.

**cacuminis, Leptoperla** (Gripopterygidae)

Hynes, 1974: 10.

Holotype ♂: T-4552 NSW. Mt Kosciusko 7000 ft, 16 Feb 1972, M.E. Hynes and W.D. Williams.

Allotype ♀: T-4553 Same data as holotype.

**christinae, Austrocercella** (Notonemouridae)

Illies, 1975: 237.

Holotype ♂: T-8336 Tas. Hot Springs Creek, Hastings Caves, 14 Nov 1972, A. Neboiss.

**columbae, Austrocercella** (Notonemouridae)

Hynes, 1981: 153.

Holotype ♂: T-8430 Tas. Dove Lake, Cradle Mountain, 26 Aug 1963, J.F. Greenhill.

Paratype ♀: T-8431 Same data as above.

Paratype ♀: T-8432 Tas. Shadow Lake, 9 Oct 1978, M.E. Hynes.

**communis, obtusa Austrocercella** (Notonemouridae)

Theischinger, 1984b: 702.

Holotype ♂: T-8433 Vic. Mt Buffalo, Eurobin Creek, 12 Apr 1972, P. Zwick.

Paratypes ♂/♀: T-8434–8435 Same data as holotype.

Paratype ♂: T-8436 Vic. Aberfeldy River, 26 May 1972, M.E. Hynes.

Remarks: T-8434–8435 (♂/♀) gen. preps. in one vial; T-8436 (♂) gen. prep.

**compressa, Riekoperla** (Gripopterygidae)

Theischinger, 1985: 805.

Holotype ♂: T-8124 NSW Eucumbene R., Kiandra, 24 Nov 1976, I. Campbell.

Paratype ♀: T-8307 Same data as holotype.

Paratype ♂: T-8308 Same data as holotype.

Paratype ♀: T-8309–8310 Same data as holotype.

Paratypes ♀: T-8311–8315 Vic. Little River, 6 km E Wulgulmerang, 12 Dec 1976, A. Neboiss.

Paratype ♀: T-8316 Vic. Little River, Wulgulmerang, 14 Nov 1969, A. Neboiss.

Paratype ♂: T-8317 Vic. Wulgulmerang Creek, 3 km E Wulgulmerang, 12 Dec 1976, A. Neboiss.

Remarks: T-8307 (♀) 145 specimens in one vial; T-8308 (♂) 32 specimens in one vial, 1 nymph and 2 exuvie associated T-8307–8308.



**comprimata, Trinotoperla** (Gripopterygidae)

Hynes, 1982: 154.

Holotype ♂: T-8557 Tas. Fern gully to Arthur River, 31 Oct 1978, M.E. and N. Hynes.

Paratype ♀: T-8558 Same data as holotype.

Paratype ♂: T-8559 Tas. Black River top crossing, 30 Oct 1978, N. Hynes.

Paratype nymphs: T-8560 Same data as above.

Remarks: T-8557 (♂) gen. prep. + 2 exuviae; T-8558 (♀) gen. prep. + 1 exuvia; T-8559 (♂) partly emerged; T-8560 (nymphs) 11 specimens.

**cornuta, Riekoperla** (Gripopterygidae)

Theischinger, 1985: 807.

Holotype ♂: T-8125 Vic. Cement Creek, 22 Nov 1971, M.E. Hynes.

Paratype ♂: T-8292 Vic. Cement Creek, 1 Sep 1971, M.E. Hynes.

Paratype ♂: T-8293 Vic. Cement Creek, 16 Sep 1971, M.E. Hynes.

Paratypes ♂/♀: T-8294–8297 Same data as holotype.

Paratype ♂: T-8298 Vic. First tributary of Snowy Creek, Lake Mountain, 12 Oct 1971, M.E. and N. Hynes.

Remarks: T-8294–8297 (♂/♀) gen. prep. in vial with specimens.

**denise, Stenoperla** (Eustheniidae)

Theischinger, 1983: 546.

Paratypes ♂/♀: T-8566 8568 NSW. Minnamurra Falls, W of Kiama, 25 May 1973, A. Neboiss.

**dubia, Cardioperla** (Gripopterygidae)

Hynes, 1982: 134.

Holotype ♂: T-8528 Tas. Tributary of Weaning Paddock Creek, 16 Dec 1978, M.E. Hynes.

Paratype ♀: T-8529 Same data as holotype.

Paratype nymphs: T-8530 Same data as holotype.

Remarks: T-8530 (nymphs) 4 specimens + 2 exuviae.

Species Remarks: Now a synonym of *Cardioperla lobata* McLellan.

**edita, Cardioperla** (Gripopterygidae)

Hynes, 1982: 130.

Holotype ♂: T-8516 Tas. Tributary Clarence River, 11 Oct 1978, M.E. and N. Hynes.

Paratypes ♂/♀: T-8517; T-8519–8523 Same data as holotype.

Paratype nymphs: T-8518; T-8524 Same data as holotype.

Remarks: T-8518 (nymphs) 2 specimens; T-8524 (nymphs) 4 specimens.

**elegans, Dinotoperla** (Gripopterygidae)

Hynes, 1976: 134.

Holotype ♀: T-8333 Tas. Bulgobac Creek, 29 Nov 1972, J. Brownlie.

Paratype ♀: T-8334 Tas. Swampy Creek Track, 23 Nov 1972, J. Brownlie.

Species Remarks: Now synonym of *Dinotoperla opposita* (Walker).

**falsa, Cardioperla** (Gripopterygidae)

Hynes, 1982: 131.

Holotype ♂: T-8525 Tas. Chalet Creek, Mt Wellington, 20 Sep 1978, M.E. and N. Hynes.

Paratype ♀: T-8526 Same data as holotype.

Paratype nymphs: T-8527 Same data as holotype.

Remarks: T-8527 (nymphs) 8 specimens.

**flaveola, Thaumotoperla** (Eustheniidae)

Burns and Neboiss, 1957: 95.

Holotype ♂: T-949 Vic. The Waterfall, Mt Buller Rd, 14 Mar 1954, F.E. Wilson.

Remarks: T-949 dry mounted specimen.

**flindersi, Cardioperla** (Gripopterygidae)

Hynes, 1982: 137.

Holotype ♂: T-8540 Tas. Brown Marsh Creek, 11 Oct 1978, M.E. and N. Hynes.

Paratype ♀: T-8541 Same data as holotype.

Paratype nymphs: T-8542 Same data as holotype.

Paratypes ♂/♀: T-8543 8547 Tas. Brown Marsh Creek, 5 Oct 1978, M.E. and N. Hynes.

Remarks: T-8542 (nymphs) 5 specimens + 1 exuvia

**hynesorum, Riekoperla** (Gripopterygidae)

Theischinger, 1985: 790.

Holotype ♂: T-8126 NSW. Mt Kosciusko, Guthries Creek, Perisher, 8 Dec 1971, M.E. Hynes.

Paratypes ♂/♀: T-8253–8256 Same data as holotype.

Paratype ♀: T-8257 NSW. Guthries Creek, 9 Jan 1974, N. Hynes.

Paratypes ♂/♀: T-8258 8259 NSW. Spencer Creek, Mt Kosciusko, 8 Dec 1971, M.E. and N. Hynes.

**illiesi, Austroheptura** (Austroperlidae)

Hynes, 1974: 4.

Holotype ♂: T-4554 NSW. Perisher Creek, 9 Dec 1971 N. Hynes.

**illiesi, illiesi Austrocercella** (Notonemouridae)

Theischinger, 1984b: 706.

Paratype ♂: T-8442 NSW. Burns Creek, 10 km S Cabramurra, 4 Apr 1978, A. Neboiss.

Paratypes ♂/♀: T-8443–8444 NSW. Clovers Flat, 12 km NE Khancoban, 4 Apr 1978, A. Neboiss.

Paratypes ♂/♀: T-8445 8446 NSW. Ogilvies Creek, 15 km SW Cabramurra, 4 Apr 1978, A. Neboiss.

Paratypes ♂/♀: T-8447–8448 NSW. Guthries Creek, Mt. Kosciusko Road, 5 Apr 1978, A. Neboiss.

Paratypes ♂/♀: T-8449–8450 Vic. Mt Buller, Whites Falls, 25 Mar 1958, A. Neboiss.

Paratype ♀: T-8451 Vic. Cement Creek, 5 Feb 1955, A. Neboiss.

Paratypes ♂/♀: T-8452–8456 Vic. Cement Creek, 26 Mar 1958, A. Neboiss.

Paratype ♂: T-8457 Vic. Cement Creek, 24 Feb 1972, N. Hynes.

Paratypes ♂: T-8458–8459 Vic. Cement Creek, nr Warburton, 12 Mar 1970, A. Neboiss.

Paratype ♂: T-8460 Vic. Cement Creek, 24 Feb 1972, M.E. Hynes.

Paratypes ♀: T-8461 8463 Vic. Chain Bay Stream, 25 May 1972, M.E. Hynes.

Paratypes ♂/♀: T-8464 8467 Vic. Crown Creek, 29 Mar 1972, M.E. and N. Hynes.

Paratype ♀: T-8468 Vic. Crown Creek, 28 Apr 1972, N. Hynes.

Paratypes ♀: T-8469–8471 Vic. Crown Creek, 26 May 1972, M.E. Hynes.

Paratype ♂: T-8472 Vic. Godfreys Creek, 29 Mar 1972, M.E. and N. Hynes.

Paratype ♂: T-8473 Vic. Lake Mountain, 28 Mar 1979, A. Neboiss.

Paratypes ♂/♀: T-8474 8476 Vic. Lake Mountain, nr Warburton, 29 Mar 1979, A. Neboiss.

Paratype ♀: T-8477 Vic. Mt McKay, 26 Jan 1960, A. Neboiss.

Paratypes ♂/♀: T-8478 8480 Vic. Mt McKay, 5500 ft, 26 Mar 1957, A. Neboiss.

Paratype ♂: T-8481 Vic. Milgrove, 27 Mar 1954, A. Neboiss.

Paratypes ♂: T-8482–8484 Vic. Headwaters of Myrtle Creek, Ben Cairn, 28 Feb 1972, M.E. and N. Hynes.

Paratype ♀: T-8485 Vic. Noojee, 19 Apr 1962, A. Neboiss.

Paratype ♂: T-8486 Vic. Rocky Valley, 5400 ft Bogong, 12 Feb 1958, N. Dobrotvorský.

Paratype ♂: T-8487 Vic. Sassafras Creek, 19 Mar 1964, W.D. Williams.

Paratype ♂: T-8488 Vic. Sassafras Creek, Old Patch Road, 22 Apr 1972, M.E. Hynes.

Paratypes ♂/♀: T-8489 8492 Vic. South Cascade Creek, Mt Erica, 11 Apr 1960, A. Neboiss.

Paratype ♂: T-8493 Vic. Taggerty River, 7 km E of Marysville, 8 Apr 1972, A. Neboiss.

Paratype ♂: T-8494 Vic. Tanjil Bren, 22 Mar 1958, A. Neboiss.

Paratype ♂: T-8495 Vic. White Creek, Taponga, 5 Aug 1978, N. Hynes.

Paratypes ♀: T-8496 8498 Vic. Wilks Creek, 5 Jun 1972, M.E. Hynes.

Paratype ♀: T-8499 Vic. Cement Creek, nr Warburton, 27 Mar 1972, A. Neboiss.

Paratype ♀: T-8500 Vic. Sassafras Creek, Kallista, 9 Jun 1972, A. Neboiss.

Remarks: T-8443 (♂) 27 specimens and T-8444 (♀) 7 specimens in vial; T-8447 (♂) 7 specimens and T-8448 (♀) 7 specimens in



vial; T-8464–8467 (♂/♀) Each with exuvia.

**illiesi, tarraensis Austrocercella** (Notonemouridae)

Theischinger, 1984b: 708.

Holotype ♂: T-8437 Vic. Tarra Falls, 28 Mar 1957, A. Neboiss.

Paratypes ♂/♀: T-8438–8441 Same data as holotype.

Remarks: T-8437 (♂) gen. prep.

**incerta, Cardioperla** (Gripopterygidae)

Hynes, 1982: 140.

Holotype ♂: T-8548 Tas. Flowerdale River, 26–28 Oct 1978, M.E. and N. Hynes.

Paratype ♀: T-8549 Same data as holotype.

Paratype nymphs: T-8550 Same data as holotype.

Remarks: T-8550 (nymphs) 2 specimens + 1 exuvia.

**inopinata, Trinotoperla** (Gripopterygidae)

Hynes, 1982: 156.

Holotype ♂: T-8561 Tas. Esperance River, 28 Oct 1978, M.E. and N. Hynes.

Paratype ♀: T-8562 Same data as holotype.

Paratype nymphs: T-8563 Same data as holotype.

Remarks: T-8561 (♂) gen. prep.; T-8563 (nymphs) 2 specimens + 2 exuviae.

**intermedia, Riekoperla** (Gripopterygidae)

Theischinger, 1985: 810.

Holotype ♂: T-8127 Vic. Mt McKay, 19 Feb 1972, M.E. Hynes.

Paratype ♀: T-8299 Same data as holotype.

Remarks: T-8299 (♀) abdomen missing.

**isosceles, Riekoperla** (Gripopterygidae)

Theischinger, 1985: 791.

Holotype ♂: T-8128 Vic. Mt Buller, 25 Jan 1972, M.E. Hynes.

Paratypes ♂/♀: T-8260–8269 Same data as holotype.

**kershawi, Eunotoperla** (Gripopterygidae)

Tillyard, 1924: 194.

Holotype ♂: T-9684 Vic. Narracan, Dec 1894.

Allotype ♀: T-9685 Same data as holotype.

Species Remarks: The locality was published as "Warburton, Vic." whereas the label locality in Kershaw's handwriting is Narracan, Vic.

**kimminsi, Leptoperla** (Gripopterygidae)

McLellan, 1971: 10.

Holotype ♂: T-4549 Vic. Cumberland Falls, 16 Dec 1960, A. Neboiss.

**kimminsi, kallistae Leptoperla** (Gripopterygidae)

Hynes, 1974: 9.

Holotype ♂: T-9171 Vic. Sassafras Cr., Kallista, 9 Mar 1972, M.E. Hynes.

Allotype ♀: T-9172 Same data as holotype.

Paratypes ♂/♀: T-9173–9174 Vic. Sassafras Cr., Kallista, 27 Mar 1972, M.E. [N. Hynes.

Paratypes ♂/♀: T-9175–9178 Vic. Sassafras Cr., 23 Feb 1972, M.E. Hynes.

Species Remarks: Now *Leptoperla kallistae* Hynes.

**kuna, Stenoperla** (Eustheniidae)

Theischinger, 1983: 549.

Holotype ♂: T-8569 Vic. Toorong Falls, NE of Noojee, 17 Dec 1970, A. Neboiss.

Paratypes ♂/♀: T-8570–8581 Same data as holotype.

**lacustris, Eusthenia** (Eustheniidae)

Tillyard, 1921: 231.

Paratype ♂: T-434 Tas. Cradle Mt, 12 Jan 1917, R.J. Tillyard.

Remarks: T-434 dry mounted specimen.

**larvalis, Pseudopentura** (Austroperlidae)

Illies, 1969: 34.

Paratype nymph: T-9690 Tas. 40 mi E of Queenstown, 1000 m, 25 Nov 1966, J. Illies.

Species Remarks: Now *Tasmanoperla larvalis* (Illies).

**maculata, Varioperla** (Capniidae)

Weir, 1968: 65.

Paratypes ♂/♀: T-3854–3856 Qld Lamington National Park, 10 May 1962, G. Monteith.

Species Remarks: Now *Notonemoura maculata* (Weir) (Notonemouridae).

**marmorata, Dinotoperla** (Gripopterygidae)

Hynes, 1976: 135.

Holotype ♀: T-9168 Tas. Lake Lilla, Cradle Mtn Nat. Pk, 14 Dec 1974, A. Neboiss.

Paratype ♀: T-9169 Same data as holotype.

**media, Cardioperla** (Gripopterygidae)

Hynes, 1982: 136.

Holotype ♂: T-8531 Tas. Creek at picnic site, Ben Lomond Road, 25 Nov 1978, M.E. and N. Hynes.

Paratype ♀: T-8532 Same data as holotype.

Paratype nymphs: T-8533 Same data as holotype.

Paratype ♂: T-8534–8539 Tas. Creek at picnic site, Ben Lomond Road, 22 Oct 1978, P. Allbrook.

Remarks: T-8533 (nymphs) 2 specimens + 2 exuviae; T-8534–8539 (♂) 2 exuviae associated.

**montana, Riekoperla** (Gripopterygidae)

Theischinger, 1985: 820.

Paratype nymph: T-8318 NSW. 1 mi E of Guthega Dam, 9 Dec 1971, N. Hynes.

Paratype nymph: T-8319 Vic. Baker Creek, 27 Jul 1971, N. Hynes.

Paratype nymph: T-8320 Vic. Cobruna River, near Swindlers Creek, Mar 1974, J. Powling.

Paratype ♂: T-8321 Vic. Crown Creek, 24 Sep 1971, N. Hynes.

Paratype nymphs: T-8322 Vic. Crown Creek, Woods Point, Jun 1971–May 1972, N. Hynes.

Paratypes ♂/♀: T-8323–8324 Vic. Chain Bay Stream, Mt Buller, 25 Feb 1972, M.E. and N. Hynes.

Paratype nymphs: T-8325 Vic. Delatite River, Jun 1971–May 1972, N. Hynes.

Paratype ♀: T-8326 Vic. Godfreys Creek, 28 Dec 1972, M.E. Hynes.

Paratype nymph: T-8327 Vic. Murrindindi River, Falls Creek Junction, 21 Nov 1977, A. Neboiss.

Paratype nymphs: T-8328 Vic. E Tanjil River, 19 Oct 1971, N. Hynes.

Paratype ♂: T-8329 Vic. E Tanjil River, 18 Nov 1971, N. Hynes.

Paratype ♂: T-8330 Vic. Toorong River, 13 Jan 1981, A. Neboiss.

Paratype ♀: T-8331 Vic. Mt Wellington, 1 Dec 1966, J. Illies.

Paratype ♂: T-8332 Vic. Whitelaw Creek on Main Thompson Valley Road, 11 km SW of Aberfeldy, 11 Feb 1977, A.A. Calder.

Remarks: T-8322 (nymphs) 50 in vial; T-8325 (nymphs) 4 specimens and 1 exuvia; T-8328 (nymphs) 5 specimens in vial; T-8329 (♂) plus 1 exuvia; T-8331 (♀) plus 1 exuvia.

**neboissi, Austroheptura** (Austroperlidae)

Illies, 1969: 26.

Holotype nymph: T-4219 Vic. Mt Donna Buang 3600 ft, 25 Sep 1962, A. Neboiss.

Remarks: T-4219 last instar nymph; wings on slide.

**neboissi, Leptoperla** (Gripopterygidae)

McLellan, 1971: 11.

Holotype ♂: T-4546 Vic. Yarra Flats, near Healesville, 14 Sep 1965, A. Neboiss.

Allotype ♀: T-4547 Same data as holotype.

Paratype ♂: T-4548 Same data as holotype.

Paratypes nymphs: T-9433–9437 Same data as holotype.

**neboissi, Austrocercoides** (Notonemouridae)

Illies, 1975: 241.

Holotype ♂: T-8335 Vic. Sassafras Gap, 13 Feb 1963, A. Neboiss.

Remarks: T-8335 (♂) gen. prep.

**nothofagi, Eusthenia** (Eustheniidae)

Zwick, 1979: 57.

Holotype ♂: T-8592 Vic. Beech Forest, 11–19 Jan 1932, J. Clark.

Remarks: T-8592 (♂) gen. prep. in vial on pin; dry mounted specimen.

**occidentalis, Riekoperla** (Gripopterygidae)

Hynes and Bunn, 1984: 97.

Holotype ♂: T-7971 WA. Foster Brook, North Dandalup, 6 Oct 1982, S. Bunn.

Paratype ♀: T-7972 Same data as holotype.

**opposita, Perla** (Gripopterygidae)

Walker, 1852: 171.

Paratype sex unknown: T-9170 Tas. described as: "Van Dieman's Land".

Remarks: T-9170 Abdomen lost; dry mounted specimen.

Species Remarks: Now *Dinotoperla opposita* (Walker).

**primitiva, Leptoperla** (Gripopterygidae)

McLellan, 1971: 14.

Holotype ♂: T-4550 Vic. Cobungra, 27 March 1957, A. Neboiss.

Allotype ♀: T-4551 Same data as holotype.

**prona, Newmanoperla** (Gripopterygidae)

Hynes, 1982: 116.

Holotype ♂: T-8507 Tas. Esperance River, 22 Oct 1978, M.E. and N. Hynes.

Paratype ♀: T-8508 Same data as holotype.

Paratype nymph: T-8509 Same data as holotype.

Paratype nymphs: T-8510 Tas. Esperance River, 20 Oct 1978, N. Hynes.

Paratypes ♂/♀: T-8511–8515 Same data as holotype.

Remarks: T-8510 (nymphs) 2 specimens; T-8511–8515 (♂/♀) 2 exuviae associated.

**pulchra, Riekoperla** (Gripopterygidae)

Hynes, 1982: 122.

Holotype ♂: T-8031 Tas. Squires Ck., (Map reference 423325)

Site A 431, M.E. and H.B.N. Hynes.

Paratype ♀: T-8032 Same data as holotype.

Paratypes nymphs: T-8033–034 Same data as holotype.

**robusta, Thaumatoerla** (Eustheniidae)

Tillyard, 1921: 226.

Holotype ♀: T-432 Vic. Millgrove.

Remarks: T-432 dry mounted specimen.

**rubiconis, Leptoperla** (Gripopterygidae)

Theischinger, 1984c: 98.

Holotype ♂: T-8564 Vic. Rubicon, 29 Mar 1957, A. Neboiss.

**serrata, Riekoperla** (Gripopterygidae)

Theischinger, 1985: 816.

Holotype ♂: T-8129 Vic. Tanjil R. Walhalla Road, 5 km N of Moe, 17 Nov 1974, A. Neboiss.

**spinosa, Cardioperla** (Gripopterygidae)

Hynes, 1982: 142.

Holotype ♂: T-8551 Tas. Small tributary of Cuvier River, 10 Oct 1978, M.E. and N. Hynes.

Paratype ♀: T-8552 Same data as holotype.

Paratype nymphs: T-8553 Same data as holotype.

Paratypes ♂/♀: T-8554–8555 Same data as holotype.

Paratype nymph: T-8556 Same data as holotype.

Remarks: T-8553 (nymphs) 2 specimens

**timmsi, Thaumatoerla** (Eustheniidae)

Zwick, 1979: 24.

Holotype ♀: T-8565 Vic. Mt Wellington, Stream nr Lake Tarli

Karng, 15 May 1966, B.V. Timms.

**trapeza, Riekoperla** (Gripopterygidae)

Theischinger, 1985: 794.

Holotype ♂: T-8130 Vic. Mt McKay, 18–19 Feb 1972, M.E. and N. Hynes and W.D. Williams.

Paratype ♀: T-8270 Same data as holotype.

**venosa, Eustheniopsis** (Eustheniidae)

Tillyard, 1921: 232.

Holotype ♀: T-433 Vic. Narracan (nr Trafalgar), Jan 1894.

Remarks: T-433 dry mounted specimen.

Species Remarks: Now *Eusthenia venosa* (Tillyard).

**verna, Austrocercella** (Notonemouridae)

Theischinger, 1984b: 713.

Paratype ♂: T-8501 NSW. Guthries Creek, Perisher, 9 Dec 1971, M.E. Hynes.

**victoria, Austropentura** (Austroperlidae)

Illies, 1969: 36.

Holotype ♂: T-4220 Vic. Timbertop Creek, near Merrijig, 21 Oct 1957, J. Landy.

Paratypes ♀: T-9686–9687 Same data as holotype.

Paratypes nymphs: T-9688–9689 Vic. Cement Creek, Warburton, 18 Jun 1962, A. Neboiss.

Remarks: Right side wings of T-9687 mounted on microscope slide.

**williamsi, Kimminsoperla** (Notonemouridae)

Illies, 1975 60: 244.

Holotype ♂: T-8503 Tas. Hartz Mountains, 700 m, 22 Nov 1966, J. Illies.

**wongoonoo, wongoonoo Stenoperla** (Eustheniidae)

Theischinger, 1983: 553.

Paratypes ♂/♀: T-8582–8583 NSW. Styx River, 12 km S of Ebor, 17 Oct 1973, A. Neboiss.

**wongoonoo, tropica Stenoperla** (Eustheniidae)

Theischinger, 1983: 554.

Paratypes ♂/♀: T-8584–8591 N Qld 25 km along Mt Lewis Road, SW of Mossman, 8 Jan 1977, M.S. and B.J. Moulds.

**zwicki, Riekoperla** (Gripopterygidae)

Theischinger, 1985 33: 817.

Holotype ♂: T-8131 Vic. Cement Creek, 11–12 Oct 1971, M.E. Hynes.

Paratype ♂: T-8300 Same data as holotype.

Paratype ♂: T-8301 Same data as holotype.

Paratypes ♀: T-8302–8303 Same data as holotype.

Paratypes ♂: T-8304–8305 Vic. Cement Creek, 22 Nov 1971, M.E. Hynes.

Paratype ♂: T-8306 Vic. Mt Victoria, 1900 ft, 5 Oct 1971, M.E. Hynes.

Remarks: T-8300 (♂) gen. prep. in vial with specimen; T-8301 (♂) gen. prep. in vial with specimen.

**zwicki, Austrocercoides** (Notonemouridae)

Illies, 1975 60: 240.

Holotype ♂: T-8502 Tas. Edwards Creek, 12 mi N of Queenstown, 3 Dec 1972, P. Zwick.





# Additions and corrections to the Atlas of Trichoptera of the SW Pacific—Australian region

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Abstract. Neboiss, A. 1989. Additions and corrections to the Atlas of Trichoptera of the SW Pacific—Australian region. *Occasional Papers from the Museum of Victoria* 4: 63–67  
Changes are made to the Atlas of Neboiss (1986) based on papers by Ross and Jacquemart.

At the time the compiled plates of the Atlas of Trichoptera of the SW Pacific—Australian region (Neboiss, 1986) went to press, it was realized that two papers describing 13 new species from the area had been erroneously omitted. In one, Ross (1975) described 12 species of *Helicopsyche* from New Caledonia and in the other Jacquemart (1981) recorded one species of *Chimarra* from western New Guinea (Irian Jaya). The illustrations of *Helicopsyche arenaria*, *koumaca*, *vallonia*, *kariona*, *edmundsi*, *asymmetrica*, *petersorum*, *starmuehlneri*, *caledonia*, *lapidaria*, *boularia* and *hollowayi* are reproduced here from Ross's original publication (1975), and those of *Chimarra leopoldi* Jacquemart are also taken from the original publication (1981). These records increase the number of species known from the Western Pacific Islands to 60, and those from New Guinea to 153 (Neboiss, 1986).

The paper by Schmid, cited erroneously by Neboiss (1986) as Ref. No. 137, and describing *Leptocerus atsou* Schmid and *Leptocerus ousta* Schmid from Australia and *Setodes niveogrammicus* Schmid from New Guinea appeared in 1987. It is cited here correctly. Reference No. 139 appeared in 1987, not 1986. In it, Neboiss (1987) established several synonymies. *Hydropsyche papuana* Kumanski, 1979 was placed as synonym of *Hydropsyche*

*flynni* Korboot, 1964 (cf. Atlas p. 115); *Herbertorossia rapsoni* Korboot, 1964 as synonym of *Herbertorossia orakaivai* Kimmins, 1962 (cf. Atlas p. 119); *Polycentropus drummondi* Illies, 1969 as synonymy of *Polycentropus kenampi* (Korboot, 1964) (cf. Atlas p. 144); *Polycentropus niger* Korboot as synonymy of *Polycentropus similis* Kimmins, 1962 (cf. Atlas p. 143) and *Oecetis situlus* Korboot, 1964 as synonym of *Oecetis australis* (Banks, 1920) (cf. Atlas p. 266).

## References

Jacquemart, S. 1981. Un Trichoptère Philopotamide nouveau de Nouvelle-Guinée (Irian Jaya): *Chimarra leopoldi* sp. n. *Bulletin Institut royal des Sciences naturelles de Belgique* 53(5): 1–6.  
Neboiss, A. 1986. Atlas of Trichoptera of the SW Pacific—Australian Region. *Series Entomologica* 37, 286 pp. Dr W. Junk: Dordrecht '84.  
Neboiss, A. 1987. Identity of species of Trichoptera described by K. Korboot 1964–65 (Insecta). *Memoirs of the Museum of Victoria* 48: 131–140.  
Ross, H.H. 1975. A preliminary report of the Helicopsychidae (Trichoptera) of New Caledonia. *Cahiers O.R.S.T.O.M. ser. Hydrobiologie* 9(2): 67–80.  
Schmid, F. 1987. Considerations diverses sur quelques genres leptocerins (Trichoptera, Leptoceridae). *Bulletin Institut royal des Sciences naturelles de Belgique* 57 (Supplement) 147 pp., 29 pls.

PHILOPOTAMIDAE: *CHIMARRA*

1:4:4+

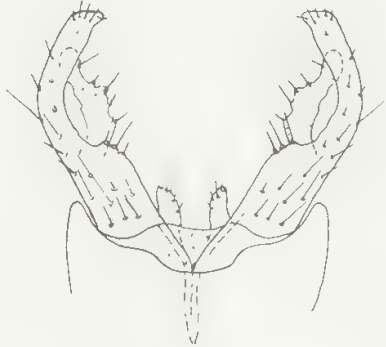
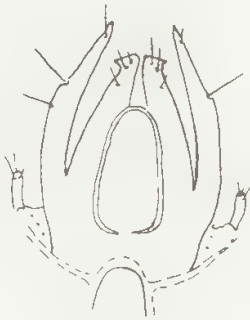
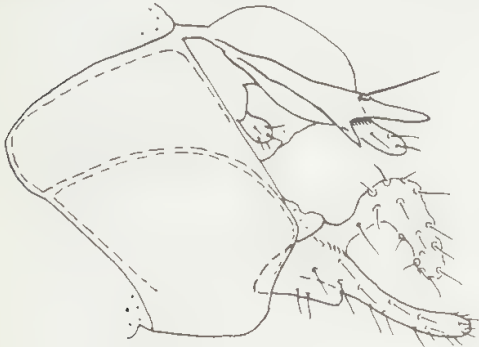
*leopoldi* JACQUEMART, 1981 m:6.5mm,f:6.5mm NG



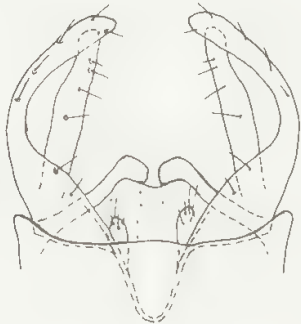
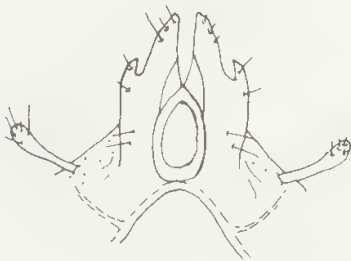
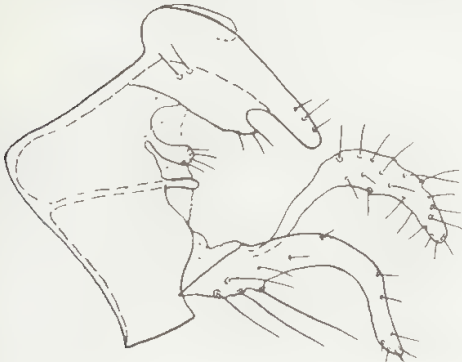
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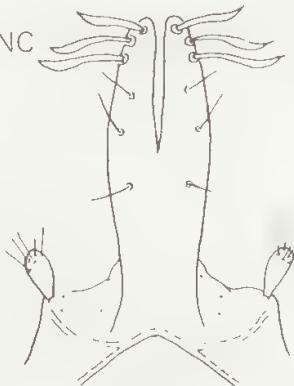
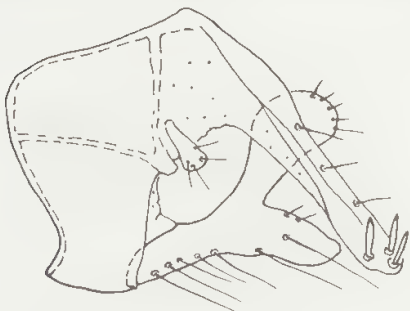
*arenaria* ROSS, 1975 m:5.5mm NC



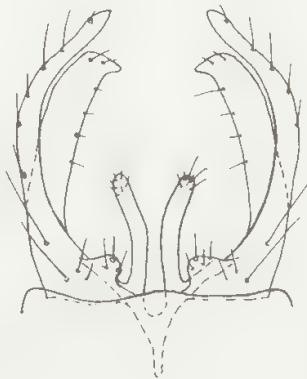
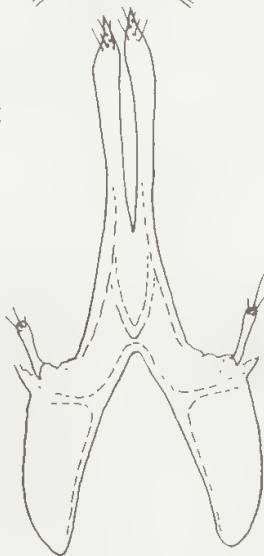
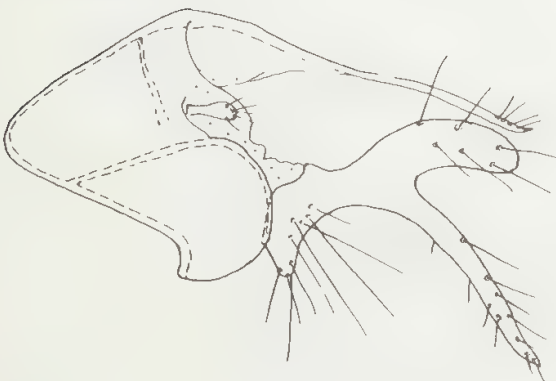
*koumaca* ROSS, 1975 m:5.5mm NC



*vallonia* ROSS, 1975 m:4mm (pupa) NC



*kariona* ROSS, 1975 m:4mm NC





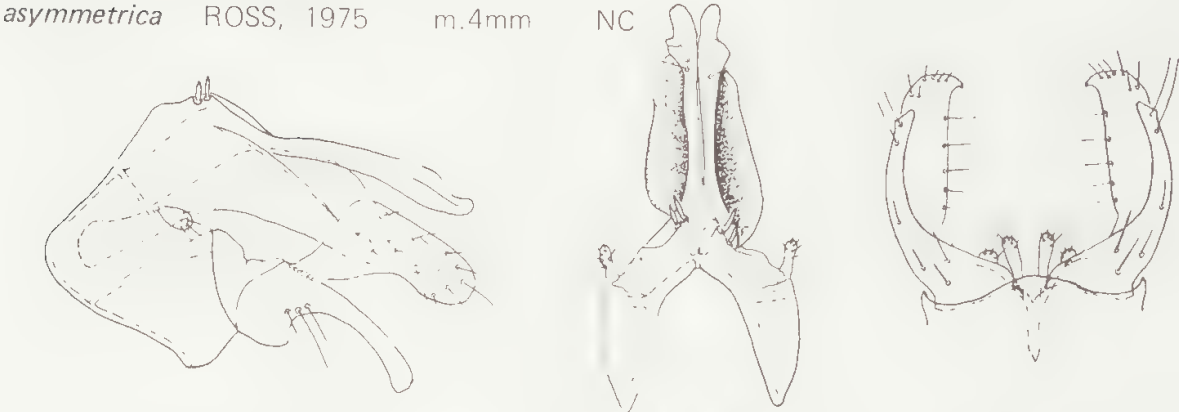
HELICOPSYCHIDAE: *HELICOPSYCHE*

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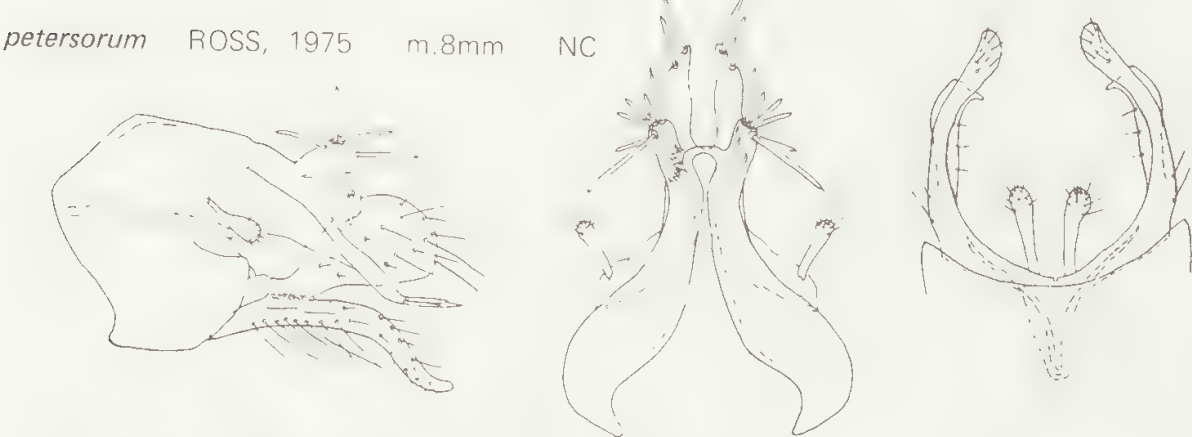
*edmundsi* ROSS, 1975 m 5.5mm NC NC



*asymmetrica* ROSS, 1975 m.4mm NC NC



*petersorum* ROSS, 1975 m.8mm NC NC



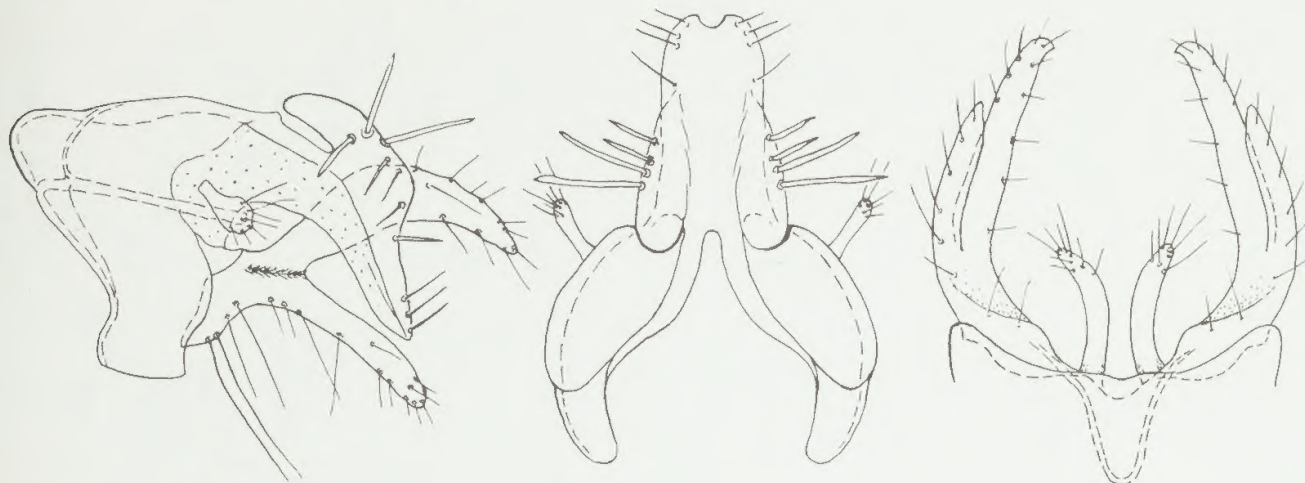
*starmuehlneri* ROSS, 1975 m:5mm (pupa) NC NC



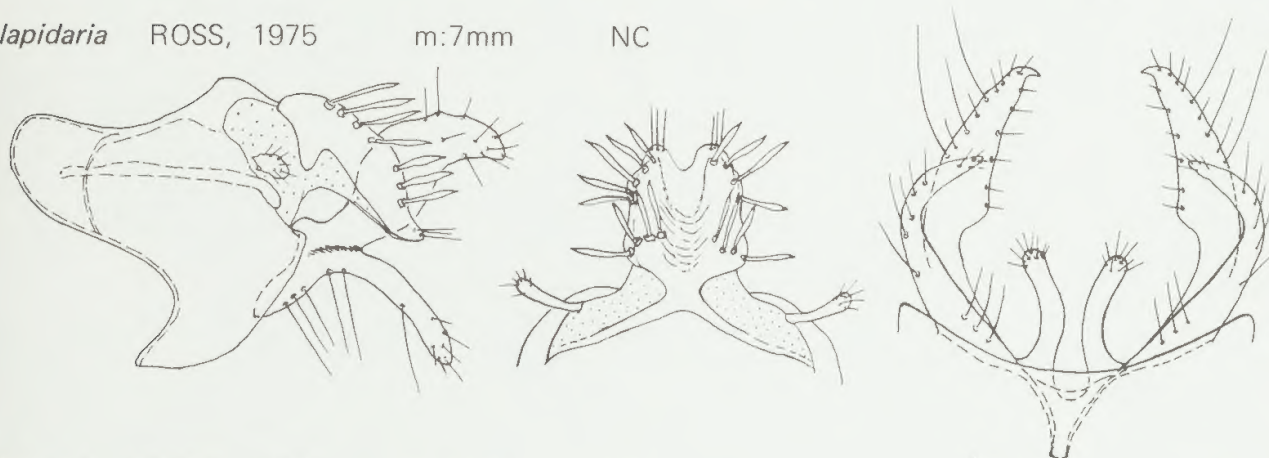
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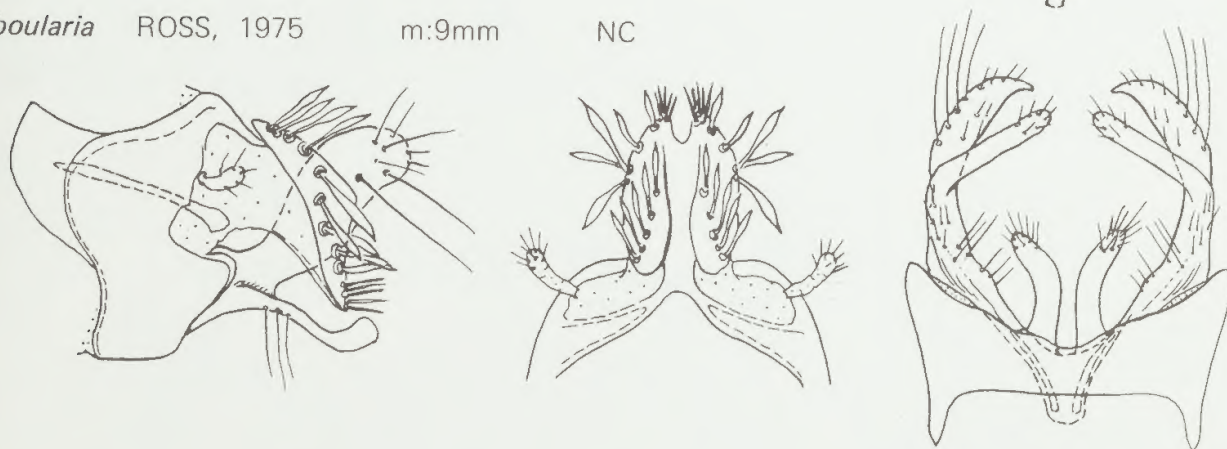
*caledonia* ROSS, 1975 m:6mm NC



*lapidaria* ROSS, 1975 m:7mm NC



*boularia* ROSS, 1975 m:9mm NC



*hollowayi* ROSS, 1975 m:10mm NC

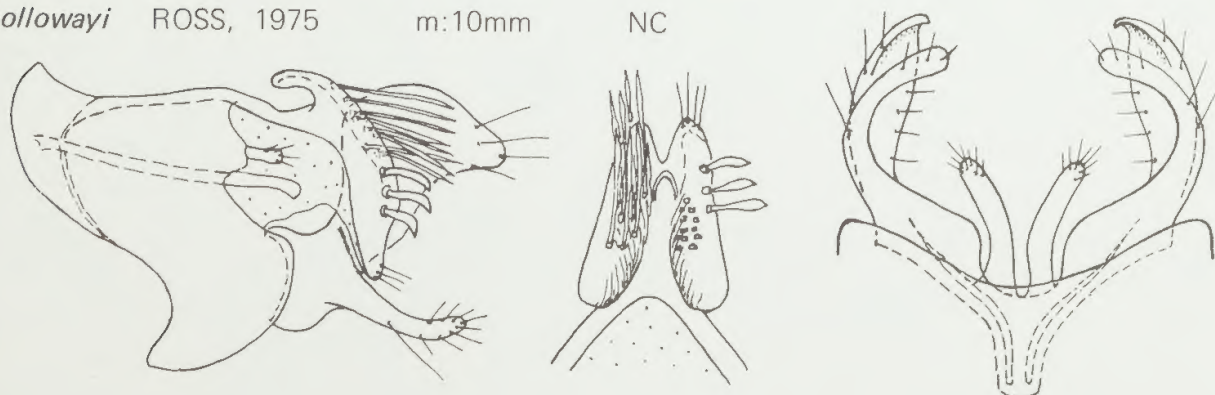








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